रजिस्टर्ड सं० डी०—(डी एन)—128/91 REGISTERED NO. D—(DN)——128/91

# भारत का राजपत्र
# The Gazette of India

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इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2
## [PART III—SECTION 2]

### पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
### [Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE

PATENTS AND DESIGNS

Calcutta, the 30th November 1991

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Telegraphic address "PATOFFICE"

Patent Office Branch,
Unit No. 401 to 405, III Floor,
Municipal Market Building,
Saraswati Marg, Karol Bagh,
New Delhi-110 005.

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Himachal Pradesh, Jammu and Kashmir,
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and Delhi

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Building, 5th, 6th and 7th
Floor, 234/4, Acharya Jagadish
Bose Road, Calcutta-700 020.

Rest of India

Telegraphic Address "PATENTS"

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

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पेटेंट कार्यालय

एकस्व तथा अभिकल्प

कलकत्ता, दिनांक 30 नवम्बर 1991

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ते में अवस्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोडी इस्टेट
तीसरा तल, लोअर परेल (पश्चिम),
बम्बई-400013

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गोआ, दमन तथा दिव एवं दादरा और नगर हवेली ।

तार पता—"पेटोफिस"

पेटेंट कार्यालय शाखा,
एकक सं. 401 से 405, तीसरा तल
नगरपालिका बाजार भवन,
सरस्वती मार्ग, करोल बाग,
नई दिल्ली-110005

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली ।

तार पता—"पेटेंटोफिक"

पेटेंट कार्यालय शाखा,
61, बालाजाह रोड,
मद्रास-600002

आन्ध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु, राज्य क्षेत्र एवं संघ शासित क्षेत्र पांडिचेरी, लक्षद्वीप, मिनिकाय तथा एमिनिदिवि द्वीप ।

तार पता—"पेटोफिस"

पेटेंट कार्यालय (प्रधान कार्यालय)
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय
भवन, 5, 6 तथा 7वां तल,
234/4, आचार्य जगदीश बोस रोड,
कलकत्ता-700020

भारत का अवशेष क्षेत्र ।

तार पता—"पेटेंट्स"

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जायेंगे ।

शुल्क—शुल्कों की अदायगी या तो नकद की जाएगी अथवा उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश अथवा डाक आदेश या जहां उपयुक्त कार्यालय अवस्थित है; उस स्थान के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट अथवा चैक द्वारा की जा सकती है ।

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REGISTRATION OF PATENTS AGENT

The following person has been registered as Patent Agents under Section 126 of sub-section (1)(c)(i) of the Patents Act, 1970.

SHRI SALIM AHMED SHAIKH,
New Delux Chawl No. 11/78,
Group No. 4, Haryali Village,
Vikhroli (E), Bombay-400 083.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20.

The dates shown in the crescent brackets are the dates claimed Under Section 135, of the Patents Act 1979.

The 14th October 1991

772/Cal/91. Hoechst Celanese Corporation. Improved method for the purification of Acetaminophen.

773/Cal/91. Sumitomo Chemical Company Limited. Triazine compounds and method for dyeing or printing fiber materials using the same.

744/Cal/91. E.I. Du Pont De Nemours and Company. Solvent scrubbing recovery of lactide and other dimeric cyclic esters.

775/Cal/91. E.I. Du Pont De Nemours and Company. Polyoxymethylene compositions containing linear low density polyethylene.

776/Cal/91. Phillips Petroleum Company. Process for preparing Arylene Sulfide Polymers.

777/Cal/91. Societe Nationale de Commercialisation des Oleagineux du Senegal Process for training protein substances, in particular vegetable protein substances such as the proteins of oil seeds and tanned protein substances obtained using this process.

778/Cal/91. Repap Technologies Inc. Chlorine-free wood pulps and process of making.

The 15th October, 1991

779/Cal/91. Paul Anton Nysen. Apparatus for two-way communication. (Convention date 27th Oct. 1987, No. PI 5107/87, Australia, 2nd May, 1988, No. PI 8011/88, Australia, 8th June, 1988, No. PI 8687/88, Australia, and 27th Sept., 1988, No. PJ 0632/88, Australia).

780/Cal/91. Paul Anton Nysen. Apparatus for two-way communication.
(Convention date) :
In Australia Appln. No. PI 5107/87 filed on 27-10-87
In Australia Appln. No. PI 8011/88 filed on 2-5-88
In Australia Appln. No. PI 8687/88 filed on 8-6-88
In Australia Appln. No. PJ 0632/88 filed on 27-9-88

781/Cal/91. Evanite Fiber Corporation. Apparatus and method for making glass fibers.

782/Cal/91 Kotamraju Krishna Mohan Sharma. A method and an apparatus for manufacture of net-reinforced sheets and pipes.

783/Cal/91. ICI India Limted. Method for the preparation of alkyd resins of controlled molecular structure and molecular weight from monoglycerides.

The 16th October 1991

784/Cal/91. Steelsworth Limited. An apparatus for automate dejamming in a C.T.C. machine.

785/Cal/91. Projects & Development India Ltd. A process for the production of synthesis gas from hydrocarbons.

The 21st October 1991

786/Cal/91. Dr. Mark Eisenberg. Composite living skin equivalents.

787/Cal/91. Samsung Electronics Co. Ltd. Adaptive de-emphasis and reemphasis of high frequencies in a video signal utilizing a recorded control signal.

788/Cal/91. Samsung Electronics Co. Ltd. Colour-under chroma channel encoded with auxiliary signals.

789/Cal/91. Texaco Development Corporation. Water cut monitoring means and method.

790/Cal/91. Siemens Aktiengesellschaft. Single-pole gas-insulated line duct.

791/Cal/91. Hoechst Celanese Corporation. Process for the preparation of a monoazo dyestuff.

792/Cal/91. Mr. S. Bhanushekhar and Dr. Sheoraj Singh. Fire insulation compositions.

793/Cal/91. Mr. S. Bhanushekhar and Dr. Sheoraj Singh. Fire resistant mastic compositions.

794/Cal/91. GB Biotechnology Limited. Processing of yeast refuse and resulting product.
Convention date 17th October, 1990, No. 9022560.8, U.K.

795/Cal/91. Samsung Electron Devices Co. Ltd. Electron gun sealing apparatus.

The 22nd October 1991

796/Cal/91. Himont Incorporated. Flame retardant concentrates and process for their preparation.

797/Cal/91. Gordon Joseph Taylor. A bush assembly.

798/Cal/91. Ivan Tomka. Single-or multilayer film, partly comprising starch.

799/Cal/91. Igor Ivanovich Esman and Anatoly Konstantinovich Gleb. Hinge.

800/Cal/91. Hoechst Celanese Corporation. A method for preparing a salt of 4-hydroxystyrene and for preparing 4-tertiary-butoxycarbonyloxystyrene therefrom.

The 23rd October 1991

801/Cal/91. Siemens Aktiengesellschaft. Process for stipulating travelling speeds on light signals.

802/Cal/91. American Cyanamid Company. A method of making organic amines containing hydroxyalkyl carbamate groups.

The 24th October 1991

803/Cal/91. C & R Holdings Private Limited. A method for sealing and end-covering of troughing and return idler rollers of a belt conveyor for prolong use under dynamic condition.

804/Cal/91. General Electric Company. Enclosure.

805/Cal/91. Beloit Corporation. Pulping process.

806/Cal/91. Telefonica de Espana, S.A. Modular public telephone maintenance unit.

807/Cal/91. Telefonica de Espana, S.A. Modular public telephones adaptation unit.

The 25th October 1991

808/Cal/91. Hydroplan Engineering Ltd. An improved fluid flow control unit.

809/Cal/91. Sumitomo Pharmaceuticals Co. Ltd. and Taisho Pharmaceuticals Co. Ltd. and Wisconsin Alumni Research Foundation. Composition for solid pharmaceutical preparations containing active vitamins D3 and process for preparation thereof.

810/Cal/91. Taisho Pharmaceutical Co. Ltd., and Sumitomo Pharmaceuticals Co. Ltd., and Wisconsin Alumni Research Foundation. Composition for solid Pharmaceutical preparations containing vitamin D3 derivative and process for preparation thereof.

Applications for patents filed at he Patent Office Branch, Municipal Market Building, IIIrd Floor, Karol Bagh, New Delhi-110005.

The 22nd July 1991

657/Del/91. UOP, "Bound pillared clay for use in the production of alkyl aromatic compounds".

658/Del/91. Piaggio Veicoli Europei S.P.O., "Fuel pump with pressure regulation for injection systems in internal combustion engines".

659/Del/91. Colgate Palmolive Co., "Stabilized liquid fiber- and skin-treating compositions".

660/Del/91. Colgate Palmolive Co., "Package filling method and apparatus".

661/Del/91. Colgate-Palmolive Co., "Ultrasonic welding in pouch manufacture".

662/Del/91. Coltage Palmolive Co., 'Pouch containers and films therefor".

663/Del/91. Piaggio Veicoli Europei S.P.A., "Cylinder head for internal combustion engines, with a device for pneumaticaly assisted direct fuel injection".

The 24th July 1991

664/Del/91. Motorola Inc. "An improved amplitude modulation stereophonic receiver". [Divisional dated 19th April, 88].

665/Del/91. The Proctor & Gamble Co., "Formation of high active detergent particles".

666/Del/91. The Proctor & Gamble Co., "Microemulsified amine functional silicone in liquid fabric softeners for reducing fiber-fiber and yarn-yarn friction in fabrics".

667/Del/91. The Proctor & Gamble Co., "Microemulsified silicones in liquid fabric care compositions containing dye".

668/Del/91. De La Rue Giori S.A., "Wiping device for the plate of an intaglio printing machine".

669/Del/91. Rollatainers Ltd., "A cartons".

670/Del/91. Kao Corporation. "Process for preparing 2-hydroxy-2, 5, 9-tetramethyldecalyl ethanol".

671/Del/91. BP Chemicals Ltd., "Ethylene polymers and process for manufacturing them in gas phase".

672/Del/91. BP Chemicals Ltd., "Gas phase polymerisation".

673/Del/91. Imperial Chemical Industries PLC, "Compounds". (Convention date 15th August, 90 (U.K.).

674/Del/91. Jean Guigan, "Apparatus for separating two phases of a sample of heterogeneous liquid by centrifuging, the apparatus being particularly suitable for separating plasma from whole blood".

The 25th July 1991

675/Del/91. Alcatel Cable, "A radio transmission device having radiating cables".

The 26th July 1991

676/Del/91. Krishna Kant Puri. "Improved linearly slidable lock".

677/Del/91. The Lubrizol Corporation, "A lubricating composition". [Divisional date 6th July, 1988].

678/Del/91. Laboratorios Del Dr. Esteve. S.A., "Novel derivatives of 1-diphenylmethyl piperazine, their preparation and their use as medicaments".

679/Del/91. Laboratorios Del Dr. Esteve, S.A., "Novel derivatives of benzimidazole, their preparation and their use as medicaments".

The 29th July 1991

680/Del/91. The Gillette Co., "Shaving system".

681/Del/91. Energy Conversion Devices, Inc., "A method of fabricating microcrystalline semiconductor alloy material". [Divisional date 13th May, 88].

682/Del/91. Imperial Chemical Industries PLC, "Dyes (Convention date 15th August, 90) (U.K.).

The 30th July 1991

683/Del/91. Digital Equipment Corporation, "Automatic flowgraph generation for program analysis and translation".

684/Del/91. Digital Equipment Corporation. "Improved error reporting for translated code execution".

685/Del/91. Digital Equipment Corporation, "Cross-image referencing of program code".

686/Del/91. Digital Equipment Corporation. "System and method for preserving instruction state-atomicity for translated program code".

687/Del/91. Digital Equipment Corporation, "System and method for automatically interfacing call conventions between the dissimilar program units".

688/Del/91. Digital Equipment Corporation. "Method and apparatus for computer code processing in a code translator".

689/Del/91. Alcan International Ltd., "Ductile ultra-high strength aluminium alloy components". (Convention date 30th Juy, 90) (U.K.).

690/Del/91. Digital Equipment Corporation. "System and method for preserving instruction granularity for translated program code".

691/Del/91. Digital Equipment Corporation. 'System and method for detecting cross-domain instruction calls and data references especially adapted for code interface jacketing in a multicode execution and debugging system within a multi-architecture environment".

692/Del/91. Digital Equipment Corporation, "Software debugging system and method especially adapted for code debugging within a multi-architecture environment".

693/Del/91. Digital Equipment Corporation. "Linking of program units at program activation".

694/Del/91. Digital Equipment Corporation. "System and method for jacketing cross-domain calls in a multi-code execution and debugging system within a multi-architecture environment".

The 30th July 1991

695/Del/91. Digital Equipment Corporation, "Branch resolution via backward symbolic execution".

The 31st July 1991

696/Del/91. General Electric Co., "Combustion dome".

697/Del/91. Kameshwar Nath Mallik, "A fuel additive".

698/Del/91. Kameshwar Nath Mallik, "A fuel".

699/Del/91. Union Carbide Industrial Gases Technology Corporation, "Oxygen-separating porous membranes".

700/Del/91. The Secretary of State for Defence in Her Britannic Majesty's Government of the United Kingdom, "Process of and apparatus for preparing dinitrogen pentoxide". (Convention date 4th August 1990) (U.K.).

701/Del/91. The Secretary of State for Defence in Her Britannic Majesty's Government of the United Kingdom, "Method of extracting dinitrogen pentoxide from its mixture with nitric acid". (Convention date 4th August, 90) (U.K.).

The 1st August 1991

702/Del/91. VSL International AG, "Arrangement of prestressing tendons in a pressure tunnel".

703/Del/91. Ruhrkohle Aktiengesellschaft, "Coke oven door with hollow stopper made of ceramic material".

The 2nd August 1991

704/Del/91. Council of Scientific & Industrial Research, "An improved process for the production of alumina based wear resistant ceramics".

705/Del/91. Council of Scientific & Industrial Research, An improved process for the production of calcium cyanamide".

706/Del/91. Council of Scientific & Industrial Research, "A process for the preparation of dull-white ferric phosphate useful for fortification of common salt".

707/Del/91. Council of Scientific & Industrial Research, "An improved process for the preparation of anhydrous keytone".

708/Del/91. Council of Scientific & Industrial Research "An improved process for the preparation of phenol, dihydroxybenzene and 1, 4 benzoquinone simultaneously".

709/Del/91. Council of Scientific & Industrial Research "An improved process for the production of metallurgical grade silicon metal from alumino silicate materials".

The 5th August 1991

710/Del/91. Albright & Wilson Ltd., "Apparatus and process for the flame-retardant treatment of textiles". (Convention date 10th August, 90) (U.K.).

711/Del/91. Edward Gerard Hynes & others, "Wheels for vehicles"

712/Del/91. Rajendra Kumar Pathan, "A device/gadget to save energy (kerosene or cooking gas or electric power) in gas stove, gas burners and electric heating stoves".

The 6th August 1991

713/Del/91. Russell Dale, "Hydrodynamic bearings having beam mounted bearing pads and sealed bearing assemblies including the same".

714/Del/91. R & C Products Pty. Ltd., "Insect repellant". (Convention date 6th August, 90) (Australia).

715/Del/91. Carlstedt Elektronik AB, "An arithmetic unit for structure arithmetic".

716/Del/91. Carlstedt Elektronik AB, "A method for performing arithmetic, logical and related operations and a numerical arithmetic unit".

717/Del/91. Carlstedt Elektronik AB, "Associative memory".

718/Del/91. Carlstedt Elektronik AB, "Bit storage cell".

719/Del/91. Carlstedt Elektronik AB, "Reduction processor".

720/Del/91. Carlstedt Elektronik AB, "A communication link".

721/Del/91. Christopher A. Mayhew,, "Method for obtaining images for use in displaying a three dimensional illusion and related apparatus". [Divisional date 25th April, 88].

722/Del/91. Carlstedt Elektronik AB, "A computing device".

The 7th August 1991

723/Del/91. Hitchiner Manufacturing Co. Inc., "Counter-gravity casting using particulate supported thin walled investment shell mold".

724/Del/91. Rohm & Haas Co., "Adsorbents having enhanced surface area".

725/Del/91. Frederick Charles Koch & Gian Luigi Aponte, "Improvements in the construction of containers".

726/Del/91. Mitsubishi Materials Corporation, "Device for continuously sampling particulate material in pneumatic transport line".

727/Del/91. —Mobil Solar Energy Corporation, "Photovoltaic cells with improved thermal stability".

728/Del/91. Mobil Solar Energy Corporation, 'Method of growing cylindrical tubular crystalline bodies".

The 8th August 1991

729/Del/91. Council of Scientific & Industrial Research, "A process for the conversion of coal tar pitch to cationic and anionic bitumen emulsion for all weather road binder application".

730/Del/91. Council of Scientific & Industrial Research, "A proces for the production of "Bacteriological grade agar from Gelidiella Acerosa (Forskal) feldman ET Hamel—An Indian red seaweed".

731/Del/91. Council of Scientific & Industrial Research, "A membrane bioreactor & a process for purifying air using the said bioreactor'.

732/Del/91. Council of Scientific & Industrial Research, "A membrane bioreactor & a process for purifying air using the said bioreactor".

733/Del/91. Council of Scientific & Industrial Research, 'An improved method for the preparation of p-acetamol.

734/Del/91. Council of Scientific & Industrial Research, "A directreading device for the measuring magnetic susceptibility of catalysts and allied magnetic materials".

735/Del/91. Council of Scientific & Industrial Research. "A process for the asymmetric synthesis of chiral 3-aryloxy-1, 2 propandiols". [Divisional date 4th January, 1991].

736/Del/91. Artificial Limbs Manufacturing Corporation of India. "A folding stretcher".

The 9th August 1991

737/Del/91. First Green Park Pty. Ltd., "Packaging system". (Convention date 9th August, 90) (Australia).

738/Del/91. Rohm & Haas Co., "Reduction or elimination of film defects due to hydrogen evolution during cathodic electrode position".

Applications for patents filed at the Patent Office Branch, Municipal Market Building, IIIrd Floor, Karol Bagh, New Delhi-110005.

The 12th August 1991

739/Del/91. Newtech International, "Auto toilet seat lifter".

740/Del/91. Nauchno-Issledovatelsky Institut Tekhnologii I Bezopasnosti Lekarstvennykh Sredstv & Other, "Method of preparing 4-amino-2, 3-disubstituted-6, 7-dihydro-5H-1-pyrindine derivatives capable of promoting excitation conduction in nervous and muscular systems, recovering memory and producing anti-arrythmic and analgetic effect". [Divisional date 13th February, 89].

741/Del/91. Ingersoll-Rand Co., "Resilient mount for a rolling piston comprssor".

742/Del/91. Albright & Wilson Ltd., "Complex phosphates" (Convention date 14th August, 90) (U.K.).

743/Del/91. Torotrak Development Ltd., "Improvements in or relating to transmissions of the toroidal-race rolling-traction type". (Convention date 17th August, 90) (U.K.).

The 13th August 1991

744/Del/91. Dinkar Sahal & Arun Kumar Sinha, "An improved process for the preparation of alkyl phosphate".

745/Del/91. Kameshwar Nath Mallik, "A fuel tablet".

746/Del/91. Imax Corporation, "Film deceleration unit".

747/Del/91. The Procter & Gamble Co., "Detergent compositions". (Convention date 17th August, 90) (U.K.).

748/Del/91. The Procter & Gamble Co., "Bayonet handle package".

The 14th August 1991

749/Del/91. Council of Scientific & Industrial Research, "A novel activated cell".

750/Del/91. Council of Scientific & Industrial Research, "An improved process for the production of 2, 4-dihydroxy-quinoline'.

751/Del/91. Council of Scientific & Industrial Research, "A process for the oxidation of carbon monoxide and hydrocarbon to carbon dioxide using lanthanum doped Indian ocean manganese nodule".

752/Del/91. Council of Scientific & Industrial Research, "A process for continuous production of superplastic ultra-high carbon (UHC) steel sheet".

753/Del/91. Council of Scientific & Industrial Research, "An improved process for better cobalt recovery from roast reduced sea nodules using two stage ammoniacal leaching".

754/Del/91. Albright & Wilson Ltd., "Dye suspensions". (Convention dated 15th August, 90 & 2nd February, 91) (U.K.).

The 16th August 1991

755/Del/91. B. K. Guha & Other, "Sewage and effluent treatment plant".

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFCIE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

The 16th September 1991

694/Mas/91. Vittal Mallya Scientific Research Foundation. An improved process for the production of isobutylacetophenone.

695/Mas/91. International Business Machines Corporation. Rotary Actuator for disk drive assemblies.

696/Mas/91. WES Technology Inc., Diverter Valves. (September 17, 1990; Great Britain)

697/Mas/91. Henkel Research Corporation. Process for making olefins.

698/Mas/91. Motorola, Inc., Microcellular communications systemsusing macrodiversity (Divisional to Patent Application No. 138/Mas/88)

The 17th September 1991

699/Mas/91. Mitsubishi Jokogyo Kabushiki Kaisha. Axial-flow blower.

700/Mas/91. International Business Machines Corporation. Method for controlling processor clock signal and information processing system.

701/Mas/91. Harald Kolvereid. A securing tool for tightening a fastening device. (Divisional to Patent Application No. 354/Mas/88)

702/Mas/91. Harald Kolvereid. A fixing device for joining elements of circular cross section. (Divisional to Patent Application No. 354/Mas/88)

The 18th September 1991

703/Mas/91. Kunhikannan Chalil. Hydro-electrolytic generator.

704/Mas/91. Kunhikannan Chalil. Terrestrial magnetic generator.

705/Mas/91. Battelle Memorial Institute. Catalytic production of lactide directly from lacti acid.

706/Mas/91. Battelle Memorial Institute. Lactide production from dehydration of aqueous lactic acid feed.

707/Mas/91. ARI Technologies Inc., Process and apparatus for removal of H with separate absorber and oxidizer and a reaction chamber therebetween.

708/Mas/91. ARI Technologies Inc. Continuous auto circulation multiple zoneo mass transfer apparatus and method.

709/Mas/91. Enichem Synthesis SpA. A process for preparing a polymerizable liquid composition. (Divisional to Patent Application No. 422/Mas/88)

The 19th September 1991

710/Mas/91. GPC International Inc. A low fat mayonnaise product nad method for making the same.

711/Mas/91. Man Gutehoffnungshutte Aktiengesellschaft. Method for open-kit working nad mining of coal and other minerals.

The 20th September 1991

712/Mas/91. Girivas Viswanath Shet. A method of depicting a picture of with a caption of Sre Rajiv Gandhi standing before blind brothers.

713/Mas/91. Bruce Samuel Sedley. Magnetic key operated code-change lock. (September 28, 1990; Great Britain)

## OPPOSITION PROCEEDINGS

The Opposition as entered by Jimmy Sorab Canteenwalla and Sunbird Seals & Plastics Private Limited, Bombay as notified in the Gazette of India, Part III, Section 2 dated 10th November, 1990 against the grant of Patent for Applictaion for Patent No. 166305 made by Gurunath Vinyak Raut has succeeded and it is ordered that the application for Patent be refused.

## CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

Claim made by a CELL-ACETYL CELLULOSICS AB under Section 20(1) of the Patents Act, 1970, to proceed the application for Patent No. 168462 in their name has been allowed.

## PRINTED SPECIFICATION

A limited number of Printed Copies of the undernoted Specifications are available for sale from the PATENT OFFICE, CALCUTTA and its three Branches at Bombay, Madras and Delhi at Rs. 2/- (Rupees two only) per copy.

(2)

158699 158700 158701 158702 158703 158704 158705 158706 158707 158708 158709 158711 158712 158713 158714 158715 158716 158717 158718 158719 158720 158721 158722 158723 158724 158725 158726 158727 158728 158729 158730 198731 158732 158733 158734 158735 158736 158737 158738 158739 158740 158741 158742 158743 158744 158745 158746 158747 158748 158749 158750 158751 158752 158753 158754 158755 158756 158757 185758 158759 158760 158761 158762 158763 158764 158765 158766 158767

## PATENT SEALED

167800 167801 167802 167803 167804 167805 167821 167824 167825 167826 167827 167828 167829 167832 167833 167834 167835 167837 167838 167846 167851 167852 167854 167855 167861 167862 167863 167864 167865 167866 167867 167873 167891 167892 167893 167895

Cal—14

Del—14

Mas—08

Bom—Nil.

## AMENDMENT PROCEEDING UNDER SECTION 57

Notice is hereby given that Mr. Satish Damodar Tanksale, at 'Orient Chambers 2163/B, Sadashiv Peth, Near Neelayam Theatre, Pune-411030, Maharashtra, India an Indian National has made application under section 57 of the Patents Act 1970 for amendment of address for service in India in respect of Patent Application No. 166807 (319/Bom/1987) for "Fly ash arrester of boilers". The application for amendments and proposed amenament can be inspected free of charge of the Patent office branch, Todi Estate, IIIrd Floor, Sun Mill Compound, Lower Parel (West), Bombay-400013, on any working day during the usual office hours or copies of the same can be had on payment of usual copying charges. Any person interested in opposing the application for amendment may file the notice of opposition on the prescribed form-30 alongwith full written statement within three months from the date of this notification to the Patent Office Branch, Bombay.

If full written statement of opposition is not filed with the notice of opposition it should be left within one month from the date of filing the said notice of opposition.

## AMENDMENT PROCEEDINGS UNDER SECTION 57.

Notice is hereby given that Kabel-Und Metallwerke Gutehoffungshutte Aktiengesellschaft, a body corporate organised under the laws of the Federal Republic of Germany of post Box 3320, Klosterstrasse 29, D-4500 Osnabruck, Federal Republic of Germany have made an application under section 57 of the Patents Act, 1970 for amendment of specification of their application for Patent No. 168226 for "Process for the manufacture of copper alloy for use as material for the manufacture of continuous casting ingot Moulds."

The application for amendment and the proposed amendments can be inspected free of charge at Patent Office 234/4, Acharya Jagadish Bose Road, Calcutta-700017 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall left within one month from the date of filing the said notice.

## AMENDMENT PROCEEDINGS UNDER SECTION 57.

Notice is hereby given that Kabel-Und Metallwere Gutehoffnungshutte AG., a body corporate organised under the laws of the Federal Republic of Germany of Klosterstr. 29, D-4500 Osnabruck, Germany have made an application under section 57 of the Patents Act, 1970 for amendment of specification of their application for Patent No. 168332 for "Process for the manufacture of a Continuous casting ingot mould from a copper alloy".

The application for amendment and the proposed amendments can be inspected free of charge at Patent Office 234/4, Acharya Jagadish Bose Road, Calcutta-700017 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall left within one month from the date of filing the said notice.

AMENMDENT PROCEEDINGS UNDER SECTION 57.

Notice is hereby given that Inland Steel Company, 30, West Monroe Street, Chicago, IL 60603, U.S.A., A Delaware Corporation have made an application under Section 57 of the Patents Act, 1970, for amendment of application and specification of their application for Patent No. 933/Mas/86 (169291) for An improved method for producing continuously cast steel The amendments are by way of correction.

The application for amendments and the proposed amendments can be inspected free of charge at the Patent Office Branch, 61, Wallajah Road, Madras-600002, or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a Notice of Opposition on prescribed Form-30 within 3 months from the date of the Notification at the Patent Office, Madras-2. If the Written Statement of Opposition is not filed with the Notice of Opposition, it shall be left within one month from the date of filling the said Notice.

AMENMDENT PROCEEDINGS UNDER SECTION 57.

Notice is hereby given that Foseco International Limited, a British Company of 285 Long Acre, Nechells, Birmingham, B7 5JR, England have made an application under Section 57 of the Patents Act, 1970, for amendment of application and specification of their application for Patent No. 271/Mas/87 (169350) for "An improved exothermic compositions." The amendments are by way of correction.

The application for amendments and the proposed amendments can be inspected free of charge at the Patent Office Branch, 61, Wallajah Road, Madras-600002, or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a Notice of Opposition on prescribed Form-30 within 3 months from the date of the Notification at the Patent Office Madras-2 If the Written Statement of Opposition is not filed with the Notice of Opposition, it shall be left within one month from the date of filling the said Notice.

CHEM. ENGG. LIST NO. III

COMMERCIAL WORKING OF PATENTED INVENTIONS

The following patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by Patentees in the Statements filed by them under section 146(2) of the Patents Act, 1970 in respect of calender year 1989 generally on account of want of request for licences to work the patented invention. Persons who are interested to work the said Patents commerically may contact the patentee for the grant of a licence for the purpose.

| Patent No. | Date of Patent | Name and Address of the Patentee | Title of the invention |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| 142348 | 8-1-1976 | Council of Scientific and Industrial Research (C.S.I.R.) Rafi Marg, New Delhi-1. India. | A Process for the extraction of gallyum from sodium aluminate liquours (bayer liquor) obtainable from alumina-producing-plants. |
| 143144 | 24-3-1976 | Do- | Hydrocarbon vapour detector tube for petroleum products. |
| 143850 | 23-4-1976 | Do- | A process for making high polymeric despersants suitable for effecting separation of clays and othermaterial containing active hydroxyl groups on the surfaces present in ores and minerals. |
| 145213 | 11-10-1976 | Do- | Improved process for the preparation of pure potassium nitrate. |
| 145466 | 29-12-1976 | Do- | An improved process for the removal of mineral ssium matter in graphite. |
| 146232 | 19-10-1977 | Do- | A process for the preparation of inorganic green pigment. |
| 147705 | 23-12-1977 | Do- | Process for the preparation of urea nitrate. |
| 148080 | 18-11-1978 | Do- | An Improved process for the removal of chloride ions from etched aluminium foil for use in aluminium electrolytic capacitor. |
| 148164 | 14-9-1977 | Do- | Process for the preparation of binder material suitable for briquetting of charfines and smokeless domestic fuel. |
| 148321 | 25-9-1978 | Do- | Improved process for the preparation of sodium stearoyl -2- lactylate. |
| 148400 | 24-2-1978 | Do- | A Process for the preparation of a blasting agent/ compositions of mining tunnelling and other excavation work. |
| 148530 | 23-2-1979 | Do- | A process for the preparation of active silica from paddy husk. |

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| 148657 | 25-5-1978 | Council of Scientific and Industrial Research (C.S.I.R.) Rafi Marg, New Delhi-1 India. | Process for the production of potassium carnalite 99% pure. |
| 148658 | 25-5-1978 | Do- | Process for the recovery of nitrate values of the mother liqour obtained after the separation of potassium carnalite as potassium |
| 149251 | 17-5-1979 | Do- | Process for manufacturing of non-metallic backing strip for use in metal welding. |
| 149603 | 10-8-1979 | Do- | An improved process for preparation of reformation catalyst for use in reforming of hydrocarbons. |
| 150416 | 31-12-1979 | Do- | Process for the preparation of water displacing rust preventive oil for protection of metal from corrossion. |
| 150420 | 30-12-1978 | Do- | A process for the preparation of a detonator cap sensitive explosive composition. |
| 151036 | 25-1-1979 | Do- | A process for preparation of ammonium vendate from vanadium bearing sludge of aluminium plant by liquid ion exchange method. |
| 151184 | 28-2-1979 | Do- | A process for the preparation of sodium silicate. |
| 151654 | 18-2-1980 | Do- | A process for the isoation of pure neuraminidase. |
| 151656 | 17-5-1979 | Do- | An improved process for the preparation of anisole o-cresol and 2, 6-xylenol |
| 151661 | 19-4-1980 | Do- | A process for the preparation of anti-corrosion primer. |
| 152041 | 18-2-1980 | Do- | Process for the prepartion of corrosion inhibiting additive composition for steel pipes of heat exchangers |
| 152241 | 5-6-1979 | Do- | A process for purification and enrichment of low grade molybdenite concentrates. |
| 152242 | 5-6-1979 | Do- | An improved process for purification and enrichment of low grade molybdenite concentrates. |
| 153227 | 23-12-1980 | Do- | A process for making an improved composite silicion refactory products. |
| 153299 | 19-9-1980 | Do- | A process for the preparation of a vegetable self tanning material from caesalpinis corlaria of dividiponds for use in leather industry. |
| 153331 | 30-11-1980 | Do- | A process for the preparation of seawater corrosion in habitors additive substance from ripe froute of a vegetable plant cordia Rothilfar protection of metal surface. |
| 153384 | 2-2-1981 | Do- | A process for the preparation of commercial grade vanadium pentoxide and by-product sodium sulphate from vanadium sludge of alumina industry. |
| 153417 | 29-2-1981 | Do- | Improved process for the preparation of active manganese dioxide from pure manganese carbonate. |
| 153686 | 30-4-1981 | Do- | An improved a process for the production of sodium dichromate. |
| 153841 | 11-5-1981 | Do- | A process for the preparation of aluminium, calcium and ferrous and the like metal values from high ash washery tailings, fly ash and alike coal waste materials. |
| 153877 | 18-3-1980 | Do- | A process for the preparation of improved polymeric acrylic resin emulsion for use as Binders for pigments in leather industry. |
| 154064 | 3-7-1981 | Do- | An improved process for Delilication of Black/Green Uquors obtained as waste liquors of Paper and Allied Industries. |
| 154335 | 22-8-1981 | Do- | A process for production of iron are concentrate from low garde iron ores having hydroated iron oxide. |

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| 154669 | 9-11-1981 | Council of Scientific and Industrial Research (C·S·I·R·) Rafi Marg, New Delhi-1, India· | Process for the preparation of a catalyst composite material useful for the conversion of alcohols to hydrocarbons. |
| 154752 | 4-1-1982 | Do. | An improved process for the extraction of metal values of copper lead and zinc from sulphur ores or ores concentrates· |
| 154753 | 7-1-1982 | Do. | Improved process for the production of vanadium pentoxide flakes from vanadium bearing slags. |
| 154929 | 28-1-1982 | Do. | Process for the preparation of improved primer paints for protection of rusted steel structures· |
| 155137 | 25-10-1980 | Do. | A chemical process for demineralisation of carbonaceous materials such as coal and coke· |
| 155140 | 21-11-1980 | Do. | Improved process for the extraction of metal values like copper nickal and cobalt from copper converter slages· |
| 155204 | 11-8-1980 | Do-. | A process for manufactures of latoblocks (building blocks) using laterite soils· |
| 155444 | 27-2-1981 | Do. | Process for the extraction and sulphrization of Jojoba oil for use as a lubricant· |
| 156460 | 12-6-1981 | Do. | Production of stablized coal oil slurry· |
| 157060 | 30-12-1982 | Do. | An improved high build anticorrosive paint composition for use in marine environments· |
| 157061 | 30-9-1981 | Do. | Improved process for the disproportionation of tolune to a mixture of benzene and xylene· |
| 157110 | 7-1-1983 | Do. | A process for the prepartion of precipitated calcium carbonate from carbide lime sludge· |
| 157254 | 14-10-1981 | Do. | An imoprved process for the desulphurisation of ferrous melts in the iron and steel industry· |
| 157264 | 13-8-1982 | Do. | Apparatus and method for the simultaneous production of hydrogen and carbon monoxide separately or as a gasesous mixture· |
| 157487 | 3-2-1983 | Do. | A process for the preparation of modified celullose acetrates suitable for making memberanes for use in reserve oismosis· |
| 157865 | 26-5-1983 | Do. | Process for the preparation of plasticizer material for use in plastic industry· |
| 157886 | 19-5-1982 | Do. | A process for chemical phosphating of ferrous substrates· |
| 158085 | 25-6-1982 | Do. | Am improved process for the preparation of stable managanous oxide (MNO)· |
| 158096 | 13-4-1983 | Do. | An improved process for the preparation of isomeric tertiary alcohols· |
| 158111 | 24-8-1983 | Do. | Process for the synthesis of 6-methoxy-8-(4N-3)· (Acet o-4', 5'—dihydro-2-furanylamine-1- methyl - butylamino)-quinoline· |
| 158325 | 11-4-1983 | Do. | A process for the preparation of norethisterone esters· |
| 158331 | 19-5-1982 | Do· | A process for the recovery of lead and zinc values from moore cake· |
| 158332 | 23-8-1983 | Do· | Process for the synthesis of activated enamines of 6-methoxy 8(4-amino-1-methyl-butylamino) quinoline· |

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| 158369 | 13-7-1983 | Council of Scientific and Industrial Research (C.S.I.R.) Rafi Marg, New Delhi-1, India | A process for the conversion of limonene to carvyl chloride· |
| 158370 | 19-7-1983 | Do· | Process for the synthesis of transition metal amine complexes as potential anti-allergic agents· |
| 158462 | 23-10-1982 | Do· | A process for the preparation of catalyst for isomerisation of alkyl aromatic compounds· |
| 158468 | 23-6-1983 | Do | A process for the simultaneous preparation of 4-terpinenol, α-terpineol and δ-p-cymenol· |
| 158491 | 21-9-1983 | Do· | An improved psocess for the preparation of N-alkyl-di-isopropanolamines |
| 158528 | 20-8-1982 | Do· | A process for the production of modified sal seed metal by extraction of tannin therefrom. |
| 158563 | 9-9-1983 | Do· | A process for the synthesis of 3-(N-ethyla-cetoamide)-1-methylpiperazin-2-one· |
| 158570 | 22-10-1983 | Do· | A process for the synthesis of 2, 2-dicarbalkoxyamino s-s', dibenzimida-zolyl oxide· |
| 158655 | 26-11-1983 | Do· | Improcements in or relating to the preparation of lithium tetra chloroaluminate· |
| 158878 | 15-10-1983 | Do· | Process for the synthesis of methyl-5(6) N, N. disubstituted amino carbamoyl benzimidazole-2-carponates· |
| 158916 | 16-8-1984 | Do | Process for synthesis of 14-(3'-substituted-amino-2'-hydroxypropyloxy) 14-azadispiro [5, 1, 5, 2 ] pentadac-9, ene-7, 15-dione useful as B-1-blockers· |
| 158975 | 24-7-1982 | Do· | Process for the preparation of Diosgenin anti-sera for use in the determination of diosgenin in a plant material· |
| 159041 | 17-3-1983 | Do· | Process for the preparation of improved cationic fat liquor from vegetable oil· |
| 159048 | 9-7-1984 | Do· | Process for the preparation of human chorionic Gonadotropin (HCG) from pregnant Human urine· |
| 159049 | 4-8-1984 | Do· | A process for the isolation of wheat germ agglutinin from wheat germ. |
| 159146 | 31-3-1983 | Do· | A process for the preparation of 3-0 carboxymethyl ether glucose 6-phosphate dehydrogenase enzyme conjugates· |
| 159186 | 18-5-1984 | Do | An improved process for the preparation of a metal sulphate· |
| 159281 | 7-1-1983 | Do | A process for the preparation of tri-methyl-ether of gallic acid from terminallia chebula fruits. |
| 159282 | 2-5-1984 | Do· | Process for the preparation of allylic and benzylic esters· |
| 159286 | 22-2-1983 | Do· | An improved process for the preparation of esteriol 3-0 carboxymethyl ether· |
| 159341 | 16-5-1993 | Do· | A process for the synthesis of dipeptides of 8-amino-6-methoxy quinoline· |
| 159405 | 2-2-1983 | Do· | A process for the preparation of open pore polymer gel leads with desired entrapped whole cells for use in fermentation reactions· |
| 159409 | 8-8-1984 | Do | A process for the preparation of homogeneous metal chiral ligands catalysts using natural alkaloids· |

| 1 | 2 | 3 | 4 |
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| 159411 | 22-8-1984 | Council of Scientifi and Industrial Research (C.S.I.R.), Rafi Marg, New Delhi-1' India | Process for the preparation of N-2-(Phenoxyacetyl)· pyrrolidines· |
| 159413 | 28-6-1984 | Do· | A process for the preparation of active anti-diabetic extract of catharanthus roseseous· |
| 159414 | 18-6-1983 | Do· | Electrochemical process for the preparation of 2, 5· dihydro 2, 5 dimethoxy furan from furan· |
| 159419 | 30-6-1983 | Do· | A process for the preparation of a soil fertilizer· |
| 159420 | 6-8-1983 | Do· | A process for the preparation of isocyanate terminated diene prepolymers· |
| 159431 | 10-12-1984 | Do· | An improved process for the preparation of tea infusions with retention on natural flavour· |
| 159432 | 22-12-1983 | Do. | An improved process for sulphation roasting of copper sulphide concentrates to recover copper values in soluble form· |
| 159476 | 6-6-1984 | Do· | A process for the preparation of cocoa butter substitute from Madhuca butyracea fat· |
| 159819 | 31-7-1985 | Do· | An improved process for the preparation of mono-alkylester of azealaic acid· |
| 159926 | 8-1-1985 | Do· | An electrolytic process for the preparation of high purity Boric acid from Borax· |
| 159961 | 16-7-1984 | Do· | Process for the synthesis of 1, 4, disubstituted piperazines· |
| 160043 | 19-10-1984 | Do· | Process for the preparation of a coloured polysaccharide particulate material· |
| 160141 | 4-8-1984 | Do | A process for the preparation of alkali/alkaline earth metal salts of substituted £-(3-penta d phenoxy isobutyric acid· |
| 160170 | 21-7-1984 | Do· | A process for manufacture of 2, 4 dichloro-5-pentadecyl phenoxyacetic acid· |
| 160197 | 23-10-1982 | Do· | A catalytic process for the isomerisation of alkyl aromatic compounds· |
| 160256 | 21-2-1984 | Do· | A process esterification of carboxylic acids· |
| 160264 | 1-7-1985 | Do· | A process for the production of spherical Agar Beads· |
| 160274 | 27-5-1985 | Do· | Improvements in or relating to the preparation of water borne self curing zinc silicate coatings· |
| 160279 | 25-1-1985 | Do· | A process for the preparation of a catalyst useful for the selective conversion of ethylene into aromatic hydrocarbons containing 6 to 2 carbonatom · |
| 160355 | 26-9-1984 | Do· | An improved process for the preparation of aluminium or aluminium alloys· |
| 160402 | 2-5-1984 | Do· | An improved process for the preparations of ± Rhazidine hydrochloride· |
| 160403 | 2-5-1984 | Do· | An improved process for the treatment of coir/coir products to make them fire/Flame retardant and coir/coir products so treated· |
| 160404 | 6-7-1983 | Do· | Process for the manufacture of foil type resistance strain gauge and the strain gauge manufactured thereby· |
| 160474 | 7-2-1985 | Do· | Improved process for the preparation of metanitro-chloro-benzene· |

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| 160507 | 2-5-1984 | Council of Scientific and Industrial Research (C.S.I.R.), Rafi Marg, New Delhi 1, India. | Process for the conversion of tertiary alkyl halides into the corresponding alcohols. |
| 160520 | 10-12-1984 | Do. | A process for the extraction of cobalt, nickel and copper from copper converter slags with ammonium sulphate roasting at low temperatures. |
| 160535 | 10-12-1984 | Do. | A process for the extraction of copper nickel and cobalt metal values from manganese sea nodules. |
| 160536 | 10-12-1984 | Do. | A process for the extraction of copper, nickel and cobalt metal values from sea bed manganese nodules. |
| 160541 | 22-12-1983 | Do. | An improved process for the production of carnalite from sea or sub-soil bitterns cointaining sulphate ions by solar evaporation. |
| 160754 | 16-5-1986 | Do. | An inhibitor composition for protection of metal alloys from sea water. |
| 160756 | 25-1-1985 | Do. | Process for the preparation of new catalyst composite material useful for the conversion of alkanols to hydrocarbons. |
| 160829 | 27-2-1984 | Do. | A process for the preparation of ester-s of substituted 2, 2-di-methyl 3-cyclopropane acetic acid. |
| 160841 | 7-2-1984 | Do. | A process for the preparation of 2, 2-dimethyl-3-N-propyl) cyclopropane acetic acid. |
| 160974 | 29-2-1984 | Do. | A process for the preparation of esters of substituted 2,2-dimethyl-3-cyclopropane acetic acid. |
| 160979 | 14-10-1985 | | A process for the preparation of thickner material from the plant Litsea polyantha for use in the textile printing industry. |
| 161056 | 9-7-1984 | Do. | An improved process for the preparation of zinc sulphide silver phosphor blue photoluminescent materials. |
| 161158 | 15-5-1985 | Do. | An imporved process for the isolation of sanguinarine and dihydrganguirine from the seeds of Argemone mexicana. |
| 161321 | 27-5-1985 | Do. | Improvements in or relating to the process for the preparation of 3-methyl-But-2 ene-1-yl acetate. |
| 161411 | 18-7-1985 | Do. | An improved process for the preparation of manganese sulphate. |
| 161412 | 21-6-1985 | Do. | Improvements in or relating to electro chemical synthesis of polyindole. |
| 161457 | 13-8-1984 | Do. | A process for the preparation of a composition useful for coating rusted surfaces. |
| 161542 | 10-6-1983 | Do. | Synthesis of 1, 2-cis-1-[p-(B-py-rrolidinoethoxy) phenyl)-5-methoxy indane. |
| 161612 | 4-7-1984 | Do. | An improved process for the preparation of Sym-N, N-disubstituted diary l urea compounds. |
| 161613 | 4-7-1984 | Do. | A method for the preparation of adhesive croyon. |
| 161644 | 9-7-1984 | Do. | An improved process for the recovery of lead from a complex sulphide ores concentrate. |
| 161822 | 26-8-1983 | Do. | An improved process for the preparation of 4-amino-3-nitrobenzo phenone. |
| 162087 | 14-1-1985 | Do. | A process for the preparation of alumina based nickel catalysts. |

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| 162097 | 5-3-1985 | Council of Scientific and Industrial Research (C.S.I.R.), Rafi Marg, New Delhi-1, India | An improved process for the extraction of copper from chalcopyrite concentrate through bacterial leaching technique. |
| 162297 | 10-12-1984 | Do. | A process for the preparation of a non-corrosive flux for soft soldering of copper and coppers based alloys. |
| 162446 | 8-3-1985 | Do. | An improved process for the conversion of solasodine to 16-dehydro-prepgnemolone acetate (16-DPA). |
| 162452 | 8-1-1985 | Do. | An improved process for extraction of copper, Nickel and cobalt from deep sea manganese nodules by ammoniacal leaching. |
| 162491 | 30-4-1985 | Do. | A process for the preparation of fire resistant coating material. |
| 162504 | 4-10-1985 | Do. | An improved process for the preparation of purified colloidal graphite having 0.1 to 2 micron particle size. |
| 162522 | 5-12-1985 | Do. | An improved process for the preparation of tetrabromo bisphenol-A. |
| 162614 | 1-5-1985 | Do. | An improved process for manufacture of calcium silicide. |
| 162876 | 16-6-1984 | Do. | An improved process for the selective separation of linear terminal olefinic hydrocarbons and n-paraffins from petroleum fractions. |
| 162912 | 6-5-1986 | Do. | A process for the simultaneous preparation of sodium vanadate and zeolite by the thermal treatment of vanadium sludge. |
| 163054 | 22-7-1985 | Do. | Improvements in or relating to the preparation of epoxy polyamide titanium dioxide point for irradiation resistant coatings. |
| 163218 | 21-3-1986 | Do. | An improved process for the preparation of 2-arylaliphatic acids. |
| 163387 | 18-7-1985 | Do. | Process for the production of a smokeless solid fuel fired domestic ovens and appliances. |
| 163587 | 27-2-1985 | Do. | A process for the preparation of cyclic acetals and ketals of p-Menth-1-ene-4, 8-diol [1, 3-dioxo-(anes)] from p-Menth-1-1-ene-4, 8-oxide (terpinolene oxide). |
| 163626 | 27-5-1986 | Do. | An improved process for the isolatin of useful sterils from sugarcane wax. |
| 163643 | 25-1-1985 | Do. | Improved process for the preparation of thioethers (sulphides). |
| 163650 | 25-1-1985 | Do. | An improved process for the preparation of thiolesters. |
| 163676 | 5-2-1986 | Do. | A process for the preparation of cocoa butter extender from Madhuca butyrecea fat suitable for use in the manufacture of chocolate and other confectionery products. |
| 163588 | 23-3-85 | Do. | An improved process for production of fluid punpable non-settling concentrated water based slurry fuel. |
| 163677 | 15-5-1985 | Do. | A process for the removal of tarnished film from the surface of articles of silver, copper and their their respective alloys. |

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| 163714 | 2-8-1985 | Council of Scietific and Industrial Research (C.S.I.R.), Rafic Marg, New Delhi-, India | A process for the conversion of solarsodine hydrochloride to 16 dehydropregnenolone acetate (16-DPA). |
| 163719 | 30-8-1985 | Do. | A process for producing heat sensitive recording paper and the heat sensitive recording paper so prepared. |
| 163810 | 31-7-1985 | Do. | A process for the separation of stigmasterol derived products of 225, 235 and 22 R, 23R-iso-mers of 22, 23-Dihydroxy-24 S-ethyl-3 α-5-cyclo-5 α-cholestan 6-Ones from phytosterols of sugarcane wax. |
| 163826 | 3-8-1985 | Do. | An improved process for the production of carbonless copy paper. |
| 163832 | 1-7-1985 | Do. | Process for the preparation of predominantly cationic basictitanium tanning extract for use as a tanning material. |
| 163842 | 16-6-1986 | Do. | Process for the removal of impurities from sea salt and sub soil brine salt by floatation technique. |
| 163916 | 22-10-1983 | Do. | A process for the synthesis of 2, 2'-unsubstituted and disubstituted 5-5-dibenzimidazolyl oxides. |
| 164271 | 31-12-1985 | Do. | Process for the preparation of a stabilizer to inhibit autocatalytic decoposition of hydrogen peroxide added in pickling baths of copper andcopper based alloys |
| 153179 | 29-1-1980 | CPC International, Inc., International Plaza, Englewood, Cliffs, New Jersey 07632, USA. | Process and installation for the continuous manufacture of starch adhesives. |
| 160786 | 19-3-1981 | Do. | A process for the preparation of an adhesive composition. |
| 159460 | 19-4-1983 | Centre Stephanois De Recherches Mecaniques Hydro-Mecanique, Et Frottement, Rue Benoit Fourneyron, Andrezieux, Boutheon, Loire, France. | A process for treating ferrous metal parts containing free or combined sulphur in their surface layers. |
| 163415 | 18-3-1985 | Centre Stephonois De Reche.<br>Do. | Process for manufacture of ferrous metal parts having improved corrosion resistance. |
| 155304 | 20-1-1981 | Davy Mckee (stockton) Ltd., Stockton-on-tees, England, TS 18 3RE, U.K. | Method and apparatus for the direct reduction of material containing iron oxides. |
| 155319 | 20-1-1981 | Do. | A process and a system for reducing materials containing iron oxides. |
| 155324 | 29-1-1981 | Do. | Process and apparatus for directly reducing ore containing iron oxides. |
| 156850 | 6-8-1981 | Do. | A process for the direct reduction of materials containing iron oxides. |
| 156910 | 29-8-1981 | Do. | Apparatus for directly reducing materials containing iron oxides. |
| 146755 | 21-9-1977 | Dorr-Oliver Incorporated. | Fluidized bed drying process for porous materials. |
| 147020 | 23-12-1977 | Do. | Process for incineration of lime conditioned sewage sludge using a high sulphur fuel. |
| 154386 | 30-5-1980 | Do. | A process for desilicating a silica-contaminated pulp liquor. |
| 158487 | 27-5-1982 | Exxon Research and Engineering Do Company Florham Park, New Jersey, U.S.A. | An improved middle distillate fuel composition. |

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| 167643 | 29-9-1984 | Exxon Research and Engineering Company Florham Park. New Jersey, U.S.A. | Process for the manufacture of halogenated polymers. |
| 160468 | 22-3-1984 | Honda Giken Kogyo Kabushiki Kaisha, No. 27-8 Jingumae, 6-chome, Shibyya-ku, Tokyo, Japan. | A process for producing gasoline from a higher fatty acid glycerin ester obtained from biomass. |
| 160770 | 11-4-1984 | Hond Giken Kogyo Mabushiki Kaisha. | Process for manufacturing paraffin hydrocarbon from a higher fatty acid glycerin ester. |
| 152477 | 26-6-1979 | I.S.C. S Melting Limited of St. James Square, London Swly 4 LD, England. | Process for producing a zinc/lead oxide product suitable for briquetting. |
| 157393 | 30-11-1981 | Kerr Mc'Gee Chemical Corporation, Kerr Mc Gee Center, Oklahoma, City, Oklohoma, U.S.A. | Improved process for beneficiating titaniferous materials. |
| 160354 | 22-11-1983 | Do. | Process for producing titanium tetrachloride. |
| 151106 | 8-5-1979 | Mitsui Toatsu Chemicals Inc. 3-2-5 Kasumigaseki, Chiyodaku, Tokyo, Japan. | An improved process for synthesizing urea from ammonia and carbon dioxide with elimination of possible expansion of the tail gas from said process. |
| 153781 | 25-1-1980 | Mobilsolar energy corporation, of 16 Hickory Drive, Waltham, Massachusetts, U.S.A. | Apparatus for and method of growing crystalline body of silicon from a melt. |
| 154501 | 22-5-1980 | Mobil Solar energy Corporation at 16 Hickory Drive, Waltham, Massachusetts, U.S.A. | Method of growing a crystalline body silicon from a silicon melt. |
| 153503 | 14-12-1979 | National Research Development Corpotion, of Kingsgate House, 66/74, Victoria Street, London SWIE, GSV, England. | A method for the sterilisation of surfaces or liquids and surfaces thus sterilised. |
| 155595 | 18-3-1981 | Norsk Hydro A.S. Bygdy Alle 2, oslo 2, Norway. | A method for preparing catalysts containing zirconium oxide and copper. |
| 157483 | 3-2-1982 | Do. | Improved process for pan granulation of nitrogenous fertilizer products. |
| 159921 | 8-9-1983 | Do. | A method for the production of stabilized ammonium nitrate compositions. |
| 160359 | 21-12-1983 | Paul-Wurth S.A. 32 RUE D'Alasace, Luxembourg, Grand Duchy of Luxembourg. | Process for purifcation, treatment of metal melt for avoiding interactions between said melt and atmosphere. |
| 159679 | 15-6-1983 | Pfizer Corporation calle 1S 1/2 Avenida, Santa Isabel, Colon, Republic of Panama. | A process for preparing a topical anti-inflammatory composition. |
| 161372 | 23-2-1984 | Pfizer Corporation, Do. | A process for preparing a thiazolo derivative and pharmaceutically acceptable salts thereof. |
| 154693 | 15-9-1980 | Pfizer Inc., 235 East 42nd Street, New York, State of New York, U.S.A. | Process for deodourizing d-aspartyl-o-phenylenealkyl esters. |
| 154694 | 15-9-1980 | Do. | Process for the preparation of L-aspartic acid N-thiocarboxy-anhydride. |
| 160449 | 14-12-1983 | Do. | A process for preparing spiro-3-heterotetrazolone and pharmaceutically acceptable salts thereof. |
| 160684 | 7-2-1984 | Do. | A process for preparing a base salt of piroxicam deposited on a pharmaceutically acceptable carrier. |
| 161509 | 8-4-1985 | Do. | A process for preparing a 2-oxindole-1-Carboxamide compounds. |

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| 160090 | 21-7-1985 | Pfizer Inc., 235 East 42nd Street, New York, State of New York, U.S.A. | Process for preparing 2-oxindole-1-carboxamides compounds and a pharmaceutically-acceptable base salt thereof. |
| 162323 | 26-10-1984 | Do. | Process for the preparation of enol ether derivatives of oxicoms. |
| 162525 | 27-12-1984 | Do. | Process for the production of a laminate for controlled and prolonged release of atleast one active agent to an ambient environment. |
| 162626 | 26-2-1985 | Do. | Process for making 2-oxindole-1-Carboxamides. |
| 163393 | 14-8-1984 | Do. | Process for transformation of Yarrowia Lipolytica into vectors and subelones thereof. |
| 164207 | 16-10-1985 | Do. | A process for preparing a novel crystalline form of a monoethanolaminesalt of [N-(2-Pyridyl)]-2-methyl-4 hydroxy-2H-1,2. benzothiazine 3 carboxamide 1, 1-dioxide. |
| 164035 | 15-10-1985 | PPG Industries, Inc., PPG, Place Pittsburgh 22, State of Pennsylvania, U.S.A. | A method for making high transmittance low emissivity articles. |
| 145230 | 29-9-1977 | Shell Internationale Research Maatschappij B.V. of Carel Van Bylandtlaan 30, The Hague, The Netherlands. | Process and reactor for the partial combustion of pulverized coal. |
| 145517 | 18-10-1977 | Do. | Process for the preparation of a hydrogen-rich gas. |
| 146516 | 26-10-1977 | Do. | Esterification of hydrocarbyl-substituted succinic anhydrides. |
| 146049 | 21-11-1977 | Do. | A process for the preparation of crystalline silicotes. |
| 147159 | 18-10-1977 | Do. | Process for the preparation of hydrocarbons. |
| 147546 | 19-10-1977 | Do. | Improvements in a process for reactivating silver catalysts. |
| 147547 | 19-10-1977 | Do. | Improvements in the process for the production of ethylene oxide. |
| 147701 | 21-11-1977 | Do. | A process for the preparation of a catalyst composition. |
| 147721 | 23-3-1977 | Do. | Process for the production of ethylene oxide. |
| 148037 | 10-4-1978 | Do. | Process for the catalytic cracking of crude petroleum fractions. |
| 148558 | 14-3-1978 | Do. | A process for the dehydrogenation of hydrocarbons. |
| 151186 | 29-1-1979 | Do. | Process for the catalytic cracking of hydro carbon oils. |
| 155447 | 3-3-1981 | Do. | Process for the production of an elastomeric copolymer of an aromatic vinyl compound and a conjugated diene, suitable for use in the tread portion of a pneumatic tyre. |
| 157490 | 16-11-1981 | Do. | A process for preparing alkenes by a non-oxidative dehydrogenation process. |
| 159456 | 2-3-1983 | Do. | Process for recovering a glycol from an electrolyte-containing aqueous solution. |
| 160759 | 13-3-1985 | Do. | Process for preparing high activity free flowing olefin polymerization solid catalyst composition. |

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| 161207 | 12-6-1984 | Shell Luternationle Research Maatschappij B.V. of Carel Van By Iandtlaan 30, The Hague, The Netherlands. | A process for prepaiing elastcmcric coiolymcis. |
| 162460 | 20-2-1985 | Do. | Process for the polymerization of an alpha monoolefin. |
| 163184 | 21-3-1985 | Do. | Process for the preparation of polymers of conjugated dienes and optionally monoalkenyl aromatic hydrocarbons. |
| 163585 | 6-9-1984 | Do. | A process for producing olefin polymerization procatalyst. |
| 163630 | 14-8-1985 | Do | Process for the preparation of benzoylurea compounds. |
| 163910 | 9-4-1985 | Do. | Process for the preparation of pesticidal benzoylurea compounds. |
| 148102 | 6-2-1978 | Societe Nationale Des Poudres Et Explosifs 12 Qual Henri IV, 75181, Paris, Cedex 04, France. | Tertiary explosive compositions and an explosive charge containing the same. |
| 148695 | 6-3-1978 | Do. | Process and apparatus for the continuous nitration of cellulose using a nitrating liquor comprising nitro acid, sulphuric acid and water acid. |
| 153422 | 5-12-1979 | Do. | Combustible objects, in particular combustible catridge cases which are heat resistant to self ignition. |
| 159891 | 14-5-1980 | Do. | New process for the manufacture of nitrocellulose-based propellant powder without prior drying. |
| 162099 | 26-6-1985 | Do. | A process for producing a polymer with ethylenic unsaturations incorporating....sily lmetallocene. |
| 162855 | 14-2-1985 | Do. | Process for preparing carbamic acid derivatives. |
| 161323 | 9-7-1984 | Do. | A process for the preparation of an improved crude oil or petroleum traction. |
| 164275 | 18-10-1985 | Societe Nationale Elf Aquitaine and cesa S.A. Tour Elf, 2 Place, de la coupole la Defense 6, 92400 Courbevoie, France, and 11, Avenue, Mornae Saulnier, 78240 Velizy, Villa coublay France. | A crude oil additive composition for inhibiting the deposition of paraffins and for improving the flow properties of said crude oil. |
| 146260 | 9-1-1978 | Stamicarbon B.V. P.O. Box 10, Galeen, The Netherlands. | Preparation of melamine from urea. |
| 147228 | 26-10-1977 | Stamicarbon B.V. Do. | Process for separation of $NH_3$ and $CO_2$ from mixtures containing them. |
| 150575 | 12-4-1979 | Do. | Process for the recovery of cyclohexanone oxime. |
| 154002 | 3-4-1980 | Sulzer Brother Limited, CH-8401 Winterthur, Switzerland. | A method of precharging very fine nitrogen cold. |
| 161871 | 11-12-1981 | Do. | Process and apparatus for anaerobic treatment of organically polluted liquids. |
| 158695 | 16-12-1982 | The BF Goodrich Company, 500 South main Street, Akron, Ohio-44318, U.S.A. | Process for producing low fusion bimodal Vinyl dispersion resins. |
| 159148 | 8-9-1983 | The BF Goodrich Company. Do. | A process for preparing palymer of a carboxylic monomer and an arylate ester. |

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| 159416 | 7-9-1983 | The BF Goodrich Company 500 South main Street, Akron, Ohio-44318. U.S.A. | Process for making low density chlorinated polyvinyl chloride foam having an essentially closed cell structure. |
| 154762 | 10-10-1982 | The Goodyear Tire and Rubber company, 1144 East Market Street, Akron. Ohio 44316-0001,U.S.A. | Process for the synthesis of αβ unsaturated aryl. |
| 157255 | 16-10-1981 | Do. | Process for removal of sulfur compounds from a gas stream. |
| 158094 | 1-3-1982 | The Goodyear Tire and Rubber Companyl | Antioxidant compositions. |
| 158674 | 21-12-1982 | Do. | A process for the purification of a gas stream. |
| 160827 | 6-1-1984 | Do. | A process for the modification of a halomethylated latex. |
| 160959 | 26-2-1985 | Do. | A process for preparing a carboxyl terminated polymer. |
| 161877 | 23-1-1985 | Do. | A process for the aqueous emulsion polymerization of functionalised monomers. |
| 163423 | 1-3-1982 | Do. | An organic composition stable against oxidative degradation. |
| 160502 | 31-3-1984 | The Lubrizol Corporation P.O. Box 17100, Euclid Station, Cleveland, Ohio—44117, U.S.A. | Phosphorus containing metal salt/olefin additive composition. |
| 160840 | 6-1-1984 | Do. | A process for preparation of novel dithiophosphorus acid/amine salt. |
| 161202 | 14-3-1984 | Do. | Improved lubricant or functional fluid composition |
| 162875 | 31-3-1984 | Do. | Process for the preparation of metal corrosion inhibitor for use in aqueous system. |
| 163584 | 15-6-1984 | Do. | A method of preparing metal salts of dialkylphosphorodithioic acids. |
| 156837 | 29-5-1981 | The M.W. Kellogg Company, 3 Greenway Plaza East, Houston, Texas-77046, U.S.A. | Process and apparatus for heating hydrocarbons to form hot hydrocarbons reaction products in petroleum and chemical processes. |
| 159764 | 5-8-1983 | The M.W. Kellogg Company. Do. | Process for the production of ammonia synthesis gas. |
| 151159 | 31-10-1979 | Toyo Engineering Corporation, 5-2 Kasumigaseki, 3-chome, Chiyoda-ku, Tokyo, Japan. | Process for preparation of urea. |
| 154849 | 16-9-1980 | Do. | A spouted bed grannulation process. |
| 157607 | 2-3-1982 | Do. | Process for preparation of polymeric substance or a liquid product containing polymeric substance. |
| 160172 | 5-8-1983 | Do. | A process for producing a thermally cracks product gas mixture. |
| 150476 | 20-11-1978 | Union Carbide, | Process for the production of low-cost refined metallurgical silicon from metallurgical grade silicon. |
| 150688 | 21-2-1979 | Do. | Process for removal of acid gas mixtures. |
| 151100 | 30-3-1979 | Union Carbde Corpn., | Process for separation of normal paraffins from admixture with non-normal paraffins. |
| 151189 | 6-3-1979 | Union Carbide Corpn., | A process for the production of methane from carbon-monoxide containing gas streams. |

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| 152304 | 6-6-1979 | Union Carbide Corpn. | A rapid adiabatic pressure swing process for the separation of a multi-component feed gas. |
| 152316 | 6-6-1979 | Union Carbide Corpn., | Process and apparatus for the rapid pressure swing absorption of oxygen from air. |
| 153348 | 20-8-1979 | Union Carbide Corpn., | A process and apparatus for producing low purity oxygen. |
| 153376 | 29-11-1979 | Union Carbide Corpn., | A process for recovery of hydrogen and nitrogen from gas mixtures. |
| 155024 | 22-12-1980 | Union Carbide U.S.A. | Catalytic steam reforming of hydrocarbons. |
| 155179 | 10-12-1980 | Union Carbide, | Method of producing steel wherein slopping is prevented during subsurface pneumatic refining. |
| 155210 | 25-12-1980 | Union Carbide Corporation, 270 Park Avenue, New York, State of New York 10017, U.S.A. | Continuous solvent extraction steam-distillation process for the recovery of automatic hydrocarbons. |
| 157011 | 15-9-1981 | Union Carbide Corpn., | Isobaric process for separating normal paraffins from non-normal hydrocarbons. |
| 157864 | 19-3-1982 | Union Carbide Corporation. | Process for the preparation of a gaseous mixture of a gas and vapourized liquid. |
| 158516 | 20-7-1982 | Union Carbide Corporation, | Process for improved pressure swing adsorption and apparatus for carrying out the same. |
| 158694 | 10-12-1982 | Do. | A rapid pressure adsorption process. |
| 159182 | 21-1-1983 | Do. | Process for the production of low hydrogen containing steel. |
| 159567 | 28-6-1983 | Do. | A method for production of low hydrogen steel. |
| 159289 | 30-5-1983 | Do. | A continuous solvent extraction steam distillation energy efficiency process for the recovery of aromatic hydrocarbons. |
| 161235 | 26-9-1984 | Do | A rapid pressure swing adsorption process for the separation of gases from feed gas mixtures. |
| 161417 | 26-9-1984 | Do. | Rapid pressure swing adsorption process for the selective adsorption of atleast one more readily adsorbable gas component from feed gas mixture. |
| 161785 | 13-11-1984 | Do. | A process for the production of decarburization steel making process. |
| 158132 | 27-4-1982 | USS Engineers and Consultants Inc., 600 Grant street, Pittsburgh, State of Pennsylvania, U.S.A. | Hydroulic refractory cementitious formulation. |

ELECT. ENGG. LIST NO.—III

## COMMERCIAL WORKING OF PATENTED INVENTIONS

The following patents in the field of Electrical Engineering Industry are not being commercially worked in India as stated by patentees in the statements filed by them under Section 146(2) of the Patents Act, 1970 in respect of calendar year 1989 generally on account of want of request for licences to work the patented invention, persons who are interested to work the said patents commercially may contact the Patentees for the grant of a licence for the purpose.

| Patent No. | Date of Patent | Name & Address of Patentee. | Title of the Invention |
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| 1 | 2 | 3 | 4 |
| 154069 | 9-4-1980 | Alsthom—Atlantique 38 Avenue Kleber, 75784 Paris Cedex 16, France. | A high-tension circuit breaker. |
| 154397 | 14-7-1980 | Do. | An actuator rod for a high tension gas blast circuit breaker. |

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| 155010 | 18-11-1980 | Alsthom-Atlantique 38 Avenue Kleber, 75784 Paris Cedex 16, France. | A device for separatly assembling first and second enclosures of an electric cutout apparatus containing gas of high dieelctric strength. |
| 156219 | 16-6-1981 | Do. | An electric shunt inductance winding for an electric power transport line. |
| 157993 | 23-3-1982 | Do. | A supply circuit for electronic apparatus of a high electric potential. |
| 158118 | 5-8-1982 | Do. | Device for protecting metal objects situated in the environment of an intense magnetic field developed by an alternator rotor. |
| 158477 | 3-11-1982 | Do. | Circuit breaker. |
| 148562 | 18-4-1978 | BICC Public Limited Company, 21 Bloomsbury street, London WC1B 3 QN England. | Method and apparatus for continuously casting unrefined electrodes in quality for use in the electrolytic refining of metal. |
| 158099 | 2-4-1982 | Do. | Apparatus for detecting and locating faults in electric cables or cable installations. |
| 158438 | 23-9-1982 | Do. | Flame proof electric couplers. |
| 158540 | 14-12-1982 | Do. | A mineral insulated thermocouple cable having a termination at the hot junction and thereof and the method for providing the same. |
| 161277 | 12-6-1984 | Do. | An optical fibre ribbon structure and a method of manufacturing the same. |
| 161549 | 12-6-1984 | Do | An overhead flexible conductor. |
| 163397 | 8-3-1985 | Do. | Overhead flexible electric conductor for freely supporting from spaced supports in long lengths. |
| 163648 | 19-6-1985 | Do. | An optical fibre cable element. |
| 163912 | 19-6-1985 | Do. | An improved optical fibre ribbons. |
| 157916 | 5-4-1982 | Compagnie Industrielle Des Telecommunications Cit-Alcatel, 12 Rue de la Baume, 75008 Paris, France. | Time division exchange. |
| 158087 | 7-7-1982 | Do. | A combination of interconnected microprocessors with a system of distributed control thereof. |
| 158312 | 13-9-1982 | Do. | A digital exchange comprising groups of terminal units. |
| 158313 | 13-9-1982 | Do. | A network for a time division exchange. |
| 158314 | 13-9-1982 | Do. | A distributed control exchange having a time-division switching network, and a security system. |
| 158352 | 28-7-1982 | Do. | Synthetic reactor circuit. |
| 158366 | 5-4-1982 | Do. | Digital switching network. |
| 158568 | 7-7-1982 | Do. | Spare subscriber terminal apparatus. |
| 160093 | 12-9-1983 | Do. | Apparatus for detecting a loop during ringing with a telephone system. |
| 160100 | 20-2-1984 | Do. | Signaling terminal system for No. 7 signaling system. |
| 160161 | 6-2-1984 | Do. | System for exchanging encoded messages between stations. |
| 160300 | 6-2-1984 | Do. | Digital satellite exchange. |
| 160570 | 14-11-1984 | Do. | A spare subscriber terminal apparatus in a digital concentrate. |
| 160944 | 6-2-1984 | Do. | System for selecting one station from a set of stations dialoging with a main station. |

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| 160945 | 6-2-1934 | Compagnie Industrielle Des Telecommunications Cit-Alcatel, 12 Rue de la Baume, 75008 Paris, France· | System for transferring time slot for a set of multiplex lines· |
| 161782 | 31-5-1934 | Do· | Multi-generator externally synchronized time base· |
| 143329 | 24-2-1976 | C·S I·R , Council of Scientific & Industrial Research, Rafi Marg, New Delhi-110001· | Improvements in or relating to electrothermal smelting of lead from lead sulphide concentrates· |
| 145907 | 15-1-1977 | Do· | Improved transducer for measuring the displacement of an object apparatus or machine· |
| 146946 | 14-12-1977 | Do | Improved process for electrolytic etching aluminium foils for use as anodes in the fabrication of high voltage aluminium electrolytic capacitors· |
| 147948 | 28-12-1977 | Do· | An improved process for the simultaneous electrolytic production of zinc metal and manganese dioxide from zinc sulphide concentrates and manganese ores· |
| 148110 | 18-3-1978 | Do· | Improved process for the electrodeposition of iron-nickel alloy coatings on metal substrates· |
| 153515 | 22-12-1980 | Do· | An improved process for the electrodeposition of coating on metal substrates· |
| 153546 | 28-12-1979 | Do· | An improved device for the conversion of a signal from a non-linear transducer to linear digital from suitable for display· |
| 153766 | 23-12-1980 | Do· | An Electronic device for measuring the internal pressure in sealed containers· |
| 153823 | 12-6-1981 | Do· | An improved process for the fabrication of porous bicarbon-air electrode for metal air cells and porous bicarbon air electrodes· |
| 153861 | 8-5-1981 | Do· | An audio-visual film strip projector device for frame by frame projection of a film strip· |
| 154561 | 9-11-1981 | Do· | An improved process for the production of plated metal substrates for use as flat plate collector for solar applications· |
| 154722 | 8-12-1981 | Do· | An improved process for black chrome plating on electroformed copper Nickel foils for solar energy application· |
| 155184 | 27-3-1982 | Do· | An improved electrolytic cell suitable for the cathodic reduction of nitro-compounds to amino compounds· |
| 155863 | 29-7-1982 | Do· | An electrochemical process for the preparation of benzolde hyde for benzyl alcohol· |
| 156026 | 30-6-1982 | Do· | An improved process for the electrolytic deposition of copper tin alloys from cyamide baths on meal substrates |
| 156154 | 9-7-1982 | Do· | Sealing device for rendering fluid light an entry point of an electrical cable wire or conductor to an electrical apparatus· |
| 156218 | 10-9-1982 | Do | Process for the electrochemical preparation of 2-furoic acid from fur furaldehyde· |
| 156463 | 25-6-1981 | Do· | An improved process for the electrolytic production of chromium deposition on nickel plated metal substrates· |

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| 157059 | 30-12-1982 | CSIR, Council of Scientific and Industrial Research, Rafi Marg, New Delhi-110001. | Improvements in or relating to lithium manganese dioxide non aqueous button cells. |
| 157396 | 21-3-9983 | Do. | An improved process for immersion stripping of nickel electrodeposits from steel and stainless steel substrates. |
| 157439 | 17-2-1983 | Do. | An improved process for the esectrodeposition of lead dioxide on titanium substrates. |
| 157440 | 15-2-1983 | Do. | An electrochemical process for the preparation of n-butyric acid from N-butanol using nickel oxyhydroxide anode. |
| 157507 | 31-3-1983 | Do. | Process for the electrochemical preparation of alkali metal chromate from chromium salts. |
| 158256 | 23-4-1983 | Do | An improved process for the preparation of anhydrous magnesium chloride for use as cell feed for the electrolytic production of magnesium metal |
| 158816 | 2-2-1983 | Do. | Digital set point proportional controller device for use with precision unit operations in the chemical industry. |
| 159283 | 3-5-1984 | Do. | Tribotester. |
| 159408 | 4-8-1984 | Do. | An inter-locking ultrasonic test jig. |
| 159410 | 7-8-1984 | Do. | An improved process for the manufacture of silicon varactor diodes from epitaxial wafer. |
| 160011 | 6-6-1984 | Do. | A modified starter for a single phase induction motor. |
| 160088 | 22-1-1984 | Do. | An electronic control device for automatically controlling cathodic or anodic patentials for the protection of electrical equipment/installations. |
| 161055 | 12-6-1985 | Do. | Imprved process for electrochemical synthesis of polypyrrole. |
| 161135 | 10-4-1984 | Do. | A digital sine and cosine function generator for use in electronic instruments which require discrete frequencies. |
| 161980 | 1-7-1985 | Do. | An improved process for the preparation of manganese dioxide titanium anodes for use in the production of electrolytic manganese dioxide. |
| 162241 | 5-12-1985 | Do. | A method of making a sensor for multi-ion sensitive electrode and voltametric applications and the sensor so made. |
| 162352 | 8-11-1985 | Do. | An improved process for the preparation of ruthenised titanium electrodes. |
| 162733 | 13-9-1985 | Do. | Improvement in or relating to Hexadecimal keyboard. |
| 163185 | 30-8-1985 | Do. | A direct reading four probe resistivity meter. |
| 163102 | 21-2-1985 | Do. | Improvements in or relating to frequency Agite magnetron. |
| 163219 | 17-2-1986 | Do. | An improved process for electrolytic production of lead. |
| 163625 | 13-4-1986 | Do. | Low voltage room electrostatic precipitator. |
| 154850 | 24-9-1980 | Dresser U. K. Ltd. 197 Knightsbridge, London, SW7,1RJ, England | Method of assembling electroprecipitator discharge electrode and discharge electrode for the same. |

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| 159046 | 14-4-1983 | Dresser U.K. Ltd. 197 Knightsbridge, London SW7, IRJ England. | Circuit for supplying additional voltage pulses to electrostatic precipitators |
| 160529 | 2-7-1984 | Do. | Electro-precipitator discharge electrodes |
| 161419 | 16-10-1984 | General Signal Corpn. A corporation organised under the laws of the state of New York, U. S.A. of High Ridge, Park Box 10010, Stamford Connecticut 06904, United States of America. | A thermocouple open circuit detector. |
| 158465 | 3-11-1982 | La Telemecanique Electrique. 33 bis Avenue du Marechal-Joffre, 92000 Nanterre. France. | A mechanically controlled switch with automatic opening for a protective limiting device. |
| 158466 | 3-11-1982 | Do | A contractor apparatus. |
| 158467 | 3-11-1982 | Do. | Contractor apparatus. |
| 158481 | 13-9-1982 | Do. | Electrical apparatus, particularly a ralay or a small-size contactor. |
| 158813 | 14-1-1983 | Do. | A device for resiliently holding a contact bridge in combination with said contact bridge. |
| 159760 | 24-11-1982 | Do. | A contactor having self-protection means against the effect of the forces of repulsion between the contacts. |
| 159958 | 8-3-1983 | Do. | Electrical connection device with ready access protected terminals of set screw type. |
| 159959 | 8-3-1983 | Do. | A contractor with a removable subset of auxiliary switches. |
| 160661 | 8-3-1983 | Do. | Current reverser with electromagnetic control and mechanical locking device. |
| 162676 | 6-3-1985 | Do. | Combined isolating switch circuit breaker. |
| 147667 | 19-10-1976 | Mobil Tyco Solar Energy Corporation 16, Hickory Drive, Waltham, Massachusetts U. S. A. | Solar cell unit. |
| 153555 | 15-1-1980 | Do. | System for monitoring the growth of a crystalline body of selected material from a liquid melt. |
| 159899 | 21-10-1981 | Do. | A method for plating nickel onto a silicon body. |
| 159900 | 21-10-1981 | Do. | A method of making a photovoltaic semiconductor solar cell. |
| 160262 | 9-1-1984 | Do. | Method of fabricating solid state semiconductor devices. |
| 157249 | 16-9-1981 | National Research Development Corporaration 66-74. Victoria, (London SW1. England. | Apparatus for controlling induction motors. |
| 154408 | 7-6-1980 | Pfizer, Pigments, Inc. 235 East 42rd street New York, State of New York, U. S. A. | Process for preparing a magnetically soft powder. |
| 157089 | 19-8-1981 | Stock Equipment company. 731, Hannu Building, Cleveland, Ohio-44115, USA | Product to frequency converter. |
| 162580 | 21-1-1985 | Sulzer Brothers Limited of CH-8401 Winterthur, Switzerland, a Swiss Company. | A system for braking asynchronous motors. |

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| 159378 | 22-6-1983 | Fesa S A Rue Bugnon 38, 1020 Renes, Switzerland | Capacitive device for the measurement of displacements. |
| 159991 | 16-3-1984 | The BF Goodrich Company, A Corporation organized under the laws of the state of New York, U. S. A. of 277 Park Avenue, New York 10017 U.S.A. and with business offices at 500 south Main street Akron, Ohio 44318, USA. | Magnetic recording tape. |
| 148272 | 19-6-1978 | The General Electric Company 1, Stanhope Gate, London W.1 A, 1 EH, England. | Improvements in or relating to moving coil electrical indicating instruments. |
| 155620 | 23-2-1981 | Do. | Improvements in or relating to apparatus for fault detection. |
| 157698 | 23-3-1982 | Do. | Apparatus for protecting electric power transmission systems against faults. |
| 158133 | 1-6-1982 | Do. | Apparatus for supporting an assembly of units of electrical or electronic apparatus. |
| 158551 | 2-8-1982 | Do. | A control system in combination with induction motor for controlling the torque of the induction motor. |
| 159113 | 30-10-1982 | Do. | Apparatus for determining the location of a fault occurring in an electric power transmission line. |
| 159455 | 14-2-1983 | Do. | Electro-acoustic calling device. |
| 164004 | 5-7-1985 | The English Electric Co., Ltd. 1, Stanhope Gate London. W 1 A, 1 E H. England. | Fuse carrier for blade-contact cartridge type us links. |

**MECH & GEN LIST NO III**

**COMMERCIAL WORKING OF PATENTED INVENTIONS**

**The following patents in the field of mechanical and General Engineering Industry are not being commercially worked in India as admitted by patentees in the statements filed by them under Section 146(2) of the Patents Act. 1970 in respect of Calendar year 1989 generally on account of want of request for licences to work the patented invention. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the puspose**

| Patent No. | Date of Patent | Name & Address of the Patentee | Title of the invention |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| 154287 | 13-5-1980 | Alsthom Atlantique 38 Avenue Kleber, 75784, Paris, Cedex 16, France. | A sludge decounter and thickner. |
| 157504 | 23-12-1981 | Alsthom-Atlantique 38 Avenue Kleber, 75784, Paris Cedex 26, France. | A diffuser adapted to bleed through the wall. |
| 159213 | 23-11-1982 | Do. | Energy-efficient automatic sluice gate for sustaining a fluid level. |
| 160410 | 11-5-1981 | Do. | An automatic sheet metal cutting machine. |
| 160906 | 26-6-1984 | Do. | Rotary sluice gate. |
| 162442 | 31-12-1984 | Do. | Apparatus for draining wetted grannular material. |
| 157268 | 13-10-1981 | BICC Public Limited Company, 21 Bloomsbury Stroet, London WC1B, 3QN England. | Method and apparatus for manufacturing flexible stranded bodies. |

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| 163398 | 8-3-1985 | BICC Public Limited Company, 21 Bloomsbury Street, London WCIB. 30N, England. | An improved optical fibre element and method of manufacturing same. |
| 147493 | 1-11-1977 | Compagnie Francaise D' Etudes Et De Construction "Technip", of 232 Avenue Nopoleon-Bonaparte 92500 Fueil Malnaison, France. | Device for winding tubes around vertical and stationary cores. |
| 155149 | 8-12-1980 | Do. | Method and apparatus for cooling and liquefying a day gas having a low boiling point. |
| 161272 | 24-2-1984 | Do. | Improvements in or relating to method and appatuus for cooling and liquefying gas having a boiling point. |
| 143061 | 29-1-1976 | C. S. I R. Rafi Marg., New Delhi-1, India | A process for making prestressed concrete poles using HSD bars and portable disposable stressing beds. |
| 146773 | 8-9-1977 | C.S.I.R. | A precision wire tensioner. |
| 147035 | 26-9-1977 | C.S.I.R. | An improved soil mixing/filling implement. |
| 147051 | 22-10-1977 | C.S.I.R. | Improved screed vibration for surface composition purposes. |
| 148476 | 7-101-978 | C.S.I.R. | A Dust collection device for use with rock drilling machines in coal mines. |
| 149607 | 28-12-1977 | C.S.I.R. | Support means for civil engineering structures. |
| 150191 | 13-10-1978 | C.S.I.R. | An improved oil cum gas fired coke oven. |
| 150486 | 18-3-1980 | C.S.I.R. | The continuous process for the surface graining of aluminium foil for aluminium offset lithographic plates used in duplicating machine. |
| 150566 | 19-12-1978 | C.S.I.R. | An improved wick stove. |
| 151042 | 17-2-1979 | C.S.I.R. | A machine for chipping wood pieces in to fine chips. |
| 151651 | 12-12-1979 | C.S.I.R. | Pump for lifling water from one level to higher level. |
| 152056 | 28-4-1080 | C.S.I.R. | An improved clamp device for gases bar support of of roof of tunnels in under ground mines. |
| 152137 | 22-5-1979 | C.S.I.R. | Imrpoved hydraulically driven circumferential prestressing machine. |
| 152720 | 14-10-1089 | C.S.I.R. | A closed circuit hydraulic prop. for the support of mine and roofs with an improved relief value mechanism. |
| 152996 | 19-9-1980 | C.S.I.R | An improved resistent antivibration mounting for a machine to be fitted on a foundation or supp orting structure. |
| 153023 | 22-8-1979 | C.S.I.R. | Multi stage atomising burner. |
| 153301 | 31-1-1981 | C.S.I.R. | An improved rotary kiln for carrying out chemical reaction between solids and fluids, fluids and fluicds. |
| 153423 | 12-11-1980 | C.S.I.R. | Improved modules with three dimensional space joint device for use in the fabrication of structures. |
| 153547 | 31-12-1979 | C.S.I.R. | A device for the measurement of bulk volume of solid samples. |

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|---|---|---|---|
| 154299 | 27-3-1981 | C.S.I.R. | Apparatus for filling syrup under vacuum in a can containing acid fruits. |
| 154410 | 26-9-1991 | C.S.I.R. | An improved device for static testing of fatigue parameters of cards and slow moving vehicles. |
| 155359 | 11-2-1981 | C.S.I.R. | A process for activating particulate carbon in a rotary kiln by treatment with fluids. |
| 156025 | 30-3-1981 | C.S.I.R. | Improved liquid fuel fired industrial burners. |
| 156155 | 21-6-1982 | C.S.I.R. | A trowel vibrator device for producing vibrations in civil engineering , chemical and metallurgical industries. |
| 156163 | 2-9-1982 | C.S.I.R. | An improved hot air generator fired by particulars fuels. |
| 157165 | 25-10-1982 | C.S.I.R. | A dust arrester device for large diametre dee phole drilling for open cast mines. |
| 157477 | 11-1-1982 | C.S.I.R. | An adjustable manually operated device for moving stagnated vehicle. |
| 157696 | 26-2-1982 | C.S.I.R. | An improved liquuid fuel fired burner. |
| 157709 | 30-1-1982 | C.S.I.R. | An improved spinning pot for twisting and winding synthetic textile yarns. |
| 157849 | 25-6-1982 | C.S.I.R. | A machine for internal and/or external surface coating of steel pipes with concrete or cement mortar. |
| 157850 | 30-6-1982 | C.S.I.R. | A composite multisection quick release centering prop for use in-situ concrete constructions. |
| 158091 | 25-2-1982 | C.S.I.R. | An improved process for the production of stainless steel clad aluminium sheets. |
| 158407 | 14-11-1983 | C.S.I.R. | An improved device for measureing flow rates of fuels. |
| 158837 | 25-3-1982 | C.S.I.R. | An improved liquid fuel burner in oil fixed furnaces. |
| 159316 | 31-3-1983 | C.S.I.R. | An apparatus for precision low temperature vapour deposition of thin film coatings on water substrates. |
| 159461 | 22-5-1984 | C.S.I.R. | An improved portable solar cooker. |
| 159881 | 10-6-1983 | C.S.I.R. | An improved burner with fluid fuels. |
| 160098 | 21-1-1984 | C.S.I.R. | A device for burning solid fuels for domestic cooking and like purposes. |
| 160360 | 31-12-1983 | C.S.I.R. | An improved liquified petroleum gas stove. |
| 160668 | 4-7-1984 | C.S.I.R. | A device for on line estimation and display of brix, purity and supersaturation of sugar massecuite boiling in closed vessel under vacuum. |
| 161168 | 30-3-1985 | C.S.I.R. | A process for making medicated cervical dilators. |
| 161545 | 30-4-1985 | C.S.I.R. | Hydraulic bolt tensioning device. |
| 162243 | 9-12-1985 | C.S.I.R. | Gas sparger for exothermic gas solid reactions. |
| 162627 | 8-3-1985 | C.S.I.R. | Low power water cooled klystron valves. |
| 162646 | 13-9-1985 | C.S.I.R. | An improved device for measuring weight of charge unloaded by the rotary wagon typler from wagons. |

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| 162898 | 8-3-1985 | C·S·I·R· | Improved windmill· |
| 162915 | 18-3-1985 | C.S.I.R· | A device for attachment to domestic ovens for clean and efficient combustion of solid fuels· |
| 162998 | 11-6-1985 | C.S.I.R· | An improved refrigeration device for cold storages. |
| 163177 | 30-8-1985 | C,S.I.R· | An improved device for starting room air conditioner units· |
| 163395 | 29-3-1985 | C.S.I.R. | Swing blade crosswind axis turbine· |
| 163819 | 27-5-1986 | C.S.I.R. | Portable multigas sampler for continuous sampling of air in the atmosphero· |
| 163841 | 30-8-1985 | C.S.I.R· | An improved Hurricane Lantern· |
| 164268 | 12-12-1985 | C.S.I.R. | An improved dual fuel injection device for gas turbine combustion chamber and a gas turbine engine fitted with the said fuel injector· |
| 157608 | 17-3-1982 | Davy Mckee (Stockton) Ltd·, | A device for controlling heat transfer to the charge bed in a rotary kiln· |
| 157711 | 10-2-1982 | Do· | Apparatus for transforring signals indicative of the condition within a rotary kiln of a location off kiln· |
| 157941 | 10-2-1982 | Do· | Apparatus for correlating the readout on a stationary recorder of a series of signals· |
| 158872 | 6-11-1982 | Do· | An improved rotary kiln for directly reducing oxides of iron to metal iron and a method thereof· |
| 146280 | 18-10-1977 | Dorr-Oliver Incorporated 77, Havemeyer lane Stamford, Connecticuit, U.S·A· | Nozzle type centrifugal machine with improved slarry chambers. |
| 148038 | 19-5-1987 | Do· | An agitator mechanism for maintaining feed solids in suspension in the vat of a continuous rotary drum filter unit· |
| 148382 | 17-5-1978 | Dorr-Oliver Incorporated | Sealing means for a fluid bed reactor operating on a dry feed· |
| 149535 | 17-5-1978 | Do· | Fluidized solids transfer pipe system· |
| 150171 | 9-11-1978 | Do· | Dry coal feed systems for combustion reactors· |
| 150418 | 19-12-1978 | Do· | Rotary vacuum filter· |
| 152711 | 8-7-1979 | Do· | Multiple hydrocyclone device· |
| 153184 | 17-9-1979 | Do· | Sedimentation tank for separating solids from a liquid suspension· |
| 153396 | 13-11-1979 | Do· | Flow distribution means for screening apparatus· |
| 157090 | 25-8-1981 | Do· | Square shaped settling tank, |
| 159395 | 22-3-1983 | Do· | A rotar and a stator assembly for use with a flotation separation apparatus· |
| 159746 | 29-6-1983 | Do· | A nozzle type centrifuge· |
| 162677 | 14-3-1985 | Do· | Filteration device· |
| 158903 | 18-2-1983 | Dunlop Limited, Dunlop House, Ryder Street, St· James's London, SW1Y 6PX, England· | Fluid prossure devices· |

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|---|---|---|---|
| 152719 | 24-7-1979 | G. D. Societa Per Azioni, Via Pomponia, 10 Bologna, Italy. | Variable capacity reservoir for bar shaped elements, particularly cigarettes. |
| 154284 | 5-5-1980 | Do. | A manufacturing machine for simultaneously producing two continuous cigarette rods. |
| 154376 | 20-5-1980 | Do. | Trimmer device for the tobacco filler in a cigarette manufacturing machine. |
| 154750 | 3-10-1980 | Do. | Strip guiding device. |
| 154933 | 6-11-1980 | Do. | Cigarette manufacturing machine of the continuous rod type. |
| 155355 | 2-2-1981 | Do. | Deviator device for webs particularly paper webs. |
| 155890 | 21-4-1981 | Do. | Machine for producing two continuous cigarette rods. |
| 157114 | 19-10-1981 | Do. | Device for replacing a first, empty reel of strip material with a second new reel. |
| 157170 | 19-10-1981 | Do. | A device for simultaneously cutting two continuous rods of cigarette. |
| 157568 | 29-1-1982 | Do. | A cigarette-making machine. |
| 157846 | 21-6-1982 | Do. | Device for breaking a continuous rod in a machine for making cigarettes or cigarette filters. |
| 158525 | 16-8-1982 | Do. | A turn around device for rods like articles in particular cigarettes. |
| 158538 | 4-11-1982 | Do. | Cigarette transfer device. |
| 158989 | 16-8-1982 | Do. | A cigarette making machine with an auxiliary tobacco supply unit. |
| 159143 | 19-1-1983 | G. D. Societe Per Azioni Via Pomponica, 10 Bologna, Italy. | A cutting device for continuous rod of cigarettes. |
| 159415 | 16-8-1983 | Do. | Machine for the simultaneous manufacture of continuous cigarette rods. |
| 159545 | 8-12-1982 | Do. | A feed deivce for lablels. |
| 159563 | 26-4-1983 | Do. | An apparatus for forming perforrations in for shape articles. |
| 159652 | 14-3-1983 | Do. | An axial translation device for partly finished cigarettes. |
| 161418 | 16-10-1984 | Do. | Cigarette manufacturing machine with an auxiliary tobacco feed unit. |
| 159278 | 7-12-1982 | General Signal Corporation, High Ridge Park, Stamford, connecticut, U.S.A. | Mixing apparatus for mixing a liquid for a liquid suspension medium. |
| 159908 | 30-7-1983 | Do. | A rotary valve. |
| 160068 | 30-8-1983 | Do. | A boiler feeder apparatus. |
| 161237 | 16-10-1984 | Harsco Corporation, Narrisburg, Pennsylvania, U. S. A. | Shipping container for storing materials of cryogenic temperatures. |
| 161459 | 16-10-1984 | Do. | Cryogenic storage container. |
| 161216 | 7-8-1984 | Honda Giken Kogyo Kabushiki Kaisha. | Device for transmitting drive to an engine driven light vehicle. |
| 153240 | 23-10-1979 | I.S.C. Smelting Ltd., 6th St. James's Square SW1Y 4LD, England. | Lead splash condenser. |

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| 148205 | 4-8-1978 | Jean Guigan 9 Rue Jean Mermoz, 75008 Paris, France. | Device for dividing a sample of liquid into a plurality of calibrated portions for analysis. |
| 154925 | 14-10-1980 | Do. | Simultaneous analysis apparatus. |
| 148468 | 20-9-1978 | John Donald Wishart-8 Chapel Street, Blackburn Victoria 3130, Australia. | Improved split cycle internal combustion engines. |
| 157373 | 9-11-1981 | Do. | Improvements in split cycle internal combustion engines. |
| 148203 | 21-7-1978 | Lodge-Cottrell Limited, of George Street Parade, Birmingham B3 1QQ, England. | Improvements in or relating to fume extraction. |
| 148204 | 4-8-1978 | Lodge-Cottrell Limited, England | Improvements in or relating to gas treatment plant. |
| 150192 | 10-11-1978 | Do. | Improvements in or relating to fume containment. |
| 155886 | 16-4-1981 | Mitsui Toatsu Chemicals Inc., Toyo Engineering Corporation 3-2-5, Kasumigaseki Chiyodaku, Tokyo, Japan. | Jet layer layer granulator. |
| 148833 | 30-4-1977 | Mobil solar Energy Corporation, at 16 Hickory Drive Waltham, Massachusetts, U.S.A. | Cartridge and Furnace for crystal growth. |
| 157694 | 19-2-1982 | Mobil Solar Energy Corporation. | Apparatus for growing a crystalline ribbon-like body from a melt. |
| 158117 | 21-7-1982 | Mobile Solar Energy Corporation, 16, Hickory Drive, Waltham, Massachusetts, U.S.A. | Apparatus for growing tubular crystalline bodies. |
| 158517 | 21-7-1982 | Do. | Method and apparatus for growing a crystallized body from a melt. |
| 160563 | 17-4-1984 | Do. | Apparatus and method of growing hollow tubular bodies of crystalline material. |
| 160669 | 25-1-1980 | Do. | A method of making a silicon solar cell. |
| 155023 | 11-12-1980 | National Research Development Corporation Kingsgate House, 66-74 Victoria Street, London SW1E,6SL, England. | Imrpovements in or relating to the value timing mechanism of internal combustion engine. |
| 163829 | 11-6-1985 | National Research Development Corporation, 101 Newington Causeway, London SE1 6BU, England. | Whole crop harvesting or separating apparatus. |
| 161266 | 17-8-1984 | Norsk-Hydro A. S. Bygdy Alle 2, Norway. | Flexible container for filling, transport and storage of bulk materials. |
| 161708 | 26-10-1984 | Do. | Method and device for the manufacture of flexible containers for the storage of bulk material and containers so manufactured. |
| 163232 | 27-2-1985 | Do. | Multilayered sack. |
| 148126 | 25-7-1978 | Pandrol Limited, 9 Holborn, London EC 1N 2 NE, England. | Apparatus and a method for bending rods in making railway rail-fastening clips. |
| 156984 | 27-8-1981 | Pandrol Limited, 9 Holborn, London FC 1N, 2NE Great Britain. | A rail clip for railway track. |
| 153362 | 19-11-1979 | Paul-Wurth S. A., 32 rue D'Alasace, Luxembourg, Grand Duchy of Luxembourg. | Process and installation for charging a shaft furnace. |
| 161232 | 6-9-1984 | Do. | Device for determining the profile of the charging surface of a saft furnace. |
| 157546 | 3-3-1982 | Do. | Apparatus for controlling the movement of an oscillating spout. |
| 157547 | 5-3-1982 | Do. | An apparatus for actuating an oscillating spout. |

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| 157881 | 3-3-1982 | Paul-Wurth S. A., 32 rue D' Alasace, Luxembour, Grand Duchy of Luxembourg. | Charging device for a shafted furnace. |
| 158936 | 7-7-1983 | Do. | Apparatus for controlling the movement of an oscillating material delivery spout. |
| 159019 | 16-2-1933 | Do. | A feed device for a shaft furnace. |
| 159312 | 2-3-1933 | Do. | Parlverulent materials distribution apparatus. |
| 159517 | 1-6-1933 | Do. | Apparatus for driving an oscillating spout for distribution of charging material in a blast furnace. |
| 159618 | 1-6-1983 | Do. | Apparatus for driving an oscillating spout the ore to the furnace. |
| 159675 | 24-2-1983 | Do. | Device for coupling. |
| 159370 | 8-12-1983 | Do. | Apparatus for guiding and changing immersion lances. |
| 159957 | 24-2-1983 | Do. | Apparatus for the liquid grannulation of slag. |
| 160062 | 19-1-1984 | Do. | Conveyor blet assembly. |
| 160180 | 22-11-1983 | Do. | A shaft furnace including the charging device provided with a cooling apparatus therefor. |
| 160258 | 8-3-1984 | Do. | Apparatus for plugging tap holes of shaft furnaces. |
| 160452 | 19-1-1984 | Do. | Apparatus for the uniform charging of a belt for conveying grannulated slag. |
| 160453 | 19-1-1984 | Do. | Filtering drum for a metallurgical slag filtering installation. |
| 160951 | 4-4-1984 | Do. | Apparatus for plugging the tapholes of shaft furnaces. |
| 161548 | 6-6-1984 | Do. | Apparatus for actuating a proportioning valve. |
| 161784 | 23-10-1984 | Do. | Device for driving an oscillatiing spout. |
| 164440 | 4-3-1986 | Do. | Apparatus for charging a shaft furnace. |
| 157262 | 10-8-1981 | Peabody Holmes Limited, Turnbridge, Huddersfield HD1 6RB England. | Fluid Injector. |
| 157388 | 10-8-1981 | Do. | Fluid Injector. |
| 157397 | 28-12-1981 | PPG Industries, Inc., One PPG Place, Pittsburgh 22, State of Pennsylvania, U.S.A. | Process and apparatus for making glass. |
| 158278 | 28-6-1982 | Do. | A method of manufacturing liquid glass from glass batch material. |
| 158439 | 23-9-1982 | Do. | Method and apparatus for producing float glass. |
| 161524 | 4-7-1984 | Do. | Method for liquifying glass batch material for the production of glass products particularly flat glass, container glass, fibre glass and sodium silicate glass product. |
| 147272 | 20-3-1978 | Quigley Company Inc. of 235 East 42nd Street, New York, U. S. .A. | Sprayer for repairing refractory lining. |
| 148734 | 13-4-1978 | Do. | Method of preserving the lining of an AOD furnace lined with magnesia type refrazctory lining. |
| 154399 | 14-7-1980 | Shell Internationale Research Maatschappij B. V. Carel Van Bylandtlaam 30, The Hague, The Netherlands. | A dispenser. |
| 158531 | 30-3-1982 | Do. | Closure device. |

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| 161276 | 8-6-1984 | Societe Nationale Elf Aquaitaine (Production) Tour Aquaitaine 92080 Paris la Defence, France. | Device for connecting an input of a collecting head to an output of an under sea well head. | |
| 161847 | 11-9-1984 | Do. | Lightening device for an under sea production riser. | |
| 161848 | 11-9-1984 | Do. | A guide table for a marine production riser. | |
| 162258 | 11-9-1984 | Do. | A production riser foot for a subsea head. | |
| 151974 | 30-5-1979 | Societe Nationale Industrielle Aerospatiale 37, Boulevard de Montmorency, Paris, France. | Helicopter rotor. | |
| 154324 | 17-8-1979 | Do. | A device for limiting the flapping movements of the blades of a rotary wing aircraft main rotor. | |
| 157742 | 28-11-1982 | Do. | Helicopter rotor. | |
| 159625 | 6-7-1983 | Do. | Hub plate for a helicopter rotor method of manufacturing it and helicopter rotor hub equippeds with said hub plates. | |
| 159752 | 6-9-1983 | Do. | A safety device for manouvering an aircraft between a landing and take off area and a garage area on the dock of a ship. | |
| 161375 | 8-6-1984 | Societe Nationale Elf Aquaitaine (Production) Tour Aquitaine 92080 Paris, la Defence France. | A shield in combinat ion with a well head and functional modules of an under sea station. | |
| 161781 | 20-3-1979 | Socuete Nationale Industrielle Aerospatiale | Multi-directional suspension means for the main gear box of a rotor aircraft. | |
| 161849 | 11-9-1984 | Societe Nationale Elf Aquitaine (Production) | A dvice for connecting and disconnecting a tubular pipe movable inside a fixed tubular pipe by means of mobile detent. | |
| 162523 | 11-12-1984 | Societe Nationale Des Poudres Et Explosits. | A device for inhibiting the end faces of a block of prepellant. | |
| 163642 | 12-3-1984 | Societe Nationale Industrielle Aerospatiale | Variable-pitch multi-blade propeller intended in particular to be used as tail rotor of a rotorcraft. | |
| 163828 | 30-5-1985 | Do. | A plume diluter diverter assembly for a turbine engine of an aircraft. | |
| 156880 | 19-8-1981 | Stock Equipment Company, 731 Hanna Building Cleveland Ohio 44115 U.S.A. | A weight sensing apparatus. | |
| 156881 | 19-8-1981 | Do. | Reversing ratchet drive for door close for coal feeders. | |
| 159827 | 14-6-1983 | Sulzer Brothers Ltd. CH-8401 Winterthur Switzerland. | A steam generator. | |
| 160459 | 9-4-1984 | Sulzer Brothers Limited | A device for receiving solar energy for use in solar energy conversion. | |
| 160977 | 14-6-1984 | Sulzer Brothers Limited | Phase distribution tank. | |
| 161483 | 25-9-1984 | Do. | A device for comprising a heat exchanger. | |
| 163908 | 23-9-1985 | Do. | Reaction vessel for methane reactor for the anaerobic treatment of contaminated liquids. | |
| 153381 | 25-9-1979 | Societe D' Etudes De Machines Thermiques S. E. M. T. 2 Quai de Seine 93202 with forced Saint Denis France. | Improvement in or relating to a mushroom valve fluid cooling in particular for an internal combustion engine. | |

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|---|---|---|---|
| 153625 | 21-1-1980 | S.E.M.T. | Cam control deivce for a four-stroke internal combustion engine. |
| 154379 | 23-5-1980 | S.E.M.T. | Improvements in or relating to a fuel-injection pump of internal combustion engine. |
| 157868 | 12-4-1982 | Do. | A fuel injection pump for an internal combustion engine. |
| 158573 | 31-8-1982 | S.E.M.T. | Improvements in or relating to internal combustion engine. |
| 158347 | 28-5-1982 | Technicon Instruments Corportation, 511 Benedict Avenue, Tarrytown, State of New York, U.S.A. | Reaction tray. |
| 163272 | 28-5-1982 | Do. | An improved reaction cuvette. |
| 163818 | 8 -11-1983 | Do. | Integral reagent dispenser. |
| 146363 | 30-9-1977 | Tesa S. A. of Rue Bugnon 38, 1020 Renens, Switzerland. | Improvements to micrometers for interior or internal measurements. |
| 148259 | 13-12-1977 | Do. | Flat segmentslevel lever for micrometer and gauges. |
| 148480 | 3-4-1978 | Do. | Interior gauge for measuring the diameter of bores of machined work piece. |
| 148557 | 22-2-1978 | Do. | A shock absorbing device for use in dial measureing instruments. |
| 161129 | 30-8-1983 | Do. | Apparatus for measrung bores. |
| 161703 | 10-7-1984 | The BF Goodrich Company. | Apparatus for advacing and working thermoplastic materials. |
| 158371 | 1-6-1982 | The General Electric Company Limited, 1 S tanhope Gate, London W1A, 1EH, England. | An assembly of electrical or electronic apparatus, |
| 155035 | 25-11-1980 | The Gillette Company, Prudential Tower Building Boston, State of Massachusetts, U.S.A. | A razor blade assembly |
| 156842 | 21-7-1981 | Do. | Razor blade assembly. |
| 156904 | 27-8-1981 | Do . | A razor blade assembly. |
| 157057 | 25-9-1981 | Do. | Shaving implement. |
| 159647 | 25-9-1981 | Do. | A shaving implement. |
| 159648 | 25-9-1981 | The Gillette Company, Prudential tower Building, Boston, State of Massachusetts, U.S.A. | An improved shaving implement. |
| 161458 | 14-9-1984 | Do. | Razor Blade assembly. |
| 153554 | 8-1-1980 | The Goodyear Tire & Rubber Company, 1144, East Market Street, Akron, Ohio, USA. | A heavy truck tire. |
| 157947 | 21-5-1982 | Do. | Apparatus for treating textile cord. |
| 158876 | 28-12-1982 | Do. | Apparatus for detecting a rip in a conveyor belt movable in a closed path of travel. |
| 161790 | 18-3-1985 | Do. | Pneumatic tire. |
| 157375 | 18-11-1981 | The Titan Manufacturing Co. Pty. Ltd., Woodstock Street, Mayfield, New South Wales, 2304, Australia. | A nut incorporating resistance means. |
| 157441 | 19-11-1981 | Do. | A threaded deformed bar. |

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| 154511 | 22-7-1980 | Toyo Engineering Corporation, 2-5 Kasumigaseki-3-chome, Chiyoda-ku-Tokyo, Japan. | Granule producing apparatus. |
| 160576 | 28-12-1984 | Do. | A reactor for effecting an exothermic catalytic reaction. |
| 161165 | 15-11-1984 | Do. | Reactor for catalytic reaction. |
| 147321 | 27-2-1978 | Union Carbide Corporation, N. Y. 10017, USA. | An improved liquid-gas contacting tray. |
| 147574 | 7-11-1977 | USS Engineers and Consultants, Inc. 600 Grant Street, Pittsburgh, State of Pennsylvania, USA. | Sliding gate valve. |
| 147808 | 29-9-1977 | Do. | A sliding gate valve for a feeming vessel. |
| 147918 | 16-3-1978 | Union Carbide | An improved gas-liquid contacting tray. |
| 153049 | 23-8-1979 | Union carbide Corporation 270 Parke Avenue State of New York U.S.A. | Threaded Joint. |
| 153244 | 24-10-1979 | Do. | Improvoed ultra filteration and reverse osmasis device. |
| 153390 | 9-11-1979 | Do. | Dry particulate inoganic ultrafilteration membrane and production thereof. |
| 153772 | 5-3-1980 | Do. | Apparatus for refining molten metal. |
| 155860 | 8-4-1981 | Do. | Apparatus for refining molten aluminium. |
| 155932 | 20-5-1981 | Do. | Apparatus for refining molten metal particularly aluminium. |
| 157481 | 1-2-1982 | Do. | An approved molten metal sampling device. |
| 158135 | 29-6-1982 | Do. | Apparatus for refining molten aluminium. |
| 160189 | 20-11-1978 | Do. | A low cost solar cell. |
| 148421 | 2-2-1978 | USS Engineers and Consultants Inc. | Improved slide gate valve apparatus. |
| 152237 | 30-5-1979 | USS Engineers and Consultants Inc. 600 Grant Street, Pittsburgh State of Pennsylvania U.S.A. | A removable plate assembly for use in a rotary gate valve for teeming molten metal. |
| 153103 | 17-9-1979 | Do. | An apparatus for controlling the flow of liquid metal from the pour opening of a teeming vessel. |
| 155012 | 21-11-1980 | Do. | A refactory article and method for making the same. |
| 157111 | 17-10-1981 | Do. | A method of renovating or adapting an orificed lower valve plate of sliding gate valve. |
| 157841 | 30-4-1982 | Do | A valve mechanism for a attachment to a vessel wall for controlling metal flow from an outlet of the vessel. |
| 158692 | 25-11-1982 | Do. | Improvements in sliding gate valves for use in pouring molten metals. |
| 158857 | 17-9-1979 | Do. | Replaceable plate element for use in a valve for controlling the flow of liquid metal from a teeming vessel. |
| 158858 | 17-9-1979 | Do. | Valve for controlling the flow of liquid metal from the pour opening of a teeming vessel. |

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| 158997 | 20-12-1982 | Do | An improved movable plate assembly for a sliding gate valve for teeming molten metal. |
| 159858 | 24-5-1983 | Do. | A sliding gate valve assembly for controlling the flow of molten metal. |
| 160658 | 30-5-1979 | Do. | A slide gate valve for controlling the flow of molten metal from a teeming vessel. |
| 160949 | 23-3-1984 | Do. | A sliding gate valve assembly. |

## RENEWAL FEES PAID

145250 147835 148030 148272 148569 148673 149581 149704
150373 150694 150614 150732 150980 151059 151107 151231
151620 151734 151768 151852 152059 152099 152128 152131
152145 152312 152318 152450 152461 162511 152622 162766
152816 152870 153143 153276 153537 153733 153757 153758
154056 154284 154288 154291 154339 154376 154378 154381
154385 154392 154501 154503 154881 155121 155167 155280
155296 155367 155404 155501 155569 155622 155641 155642
155756 155885 155932 155975 156009 156030 156031 156032
156658 156675 156690 156700 156747 156807 157055 157068
157118 157357 157616 157714 157847 157848 157956 157975
158057 158070 158115 158133 158135 158199 158205 158273
158278 158371 158380 158483 158488 158969 159025 159040
159207 159289 159335 159336 159337 159423 159426 159462
159469 159567 159757 159884 160210 160211 160269 160271
160322 160461 160525 160689 160783 160786 161018 161046
161053 161136 161153 161205 161207 161252 161272 161274
161451 161455 161595 161603 161617 161624 161839 161961
162091 162100 162143 162152 162165 162426 162661 162679
162703 162759 162848 162959 162970 163025 163032 163198
163240 163250 163265 163266 163352 163382 163383 163450
163552 163560 163678 163829 163919 164054 164080 164098
164102 164167 164349 164522 164576 164664 164756 164764
164780 164790 164804 164838 164945 164946 164949 164950
165019 165043 165090 165091 165143 165146 165289 165298
165333 165338 165340 165415 165497 165518 165523 165573
165575 165759 165830 165837 165931 166089 166102 166105
166109 166127 166229 166318 166320 166321 166412 166413
166414 166415 166416 166417 166418 166429 166431 166432
166433 166436 166438 166440 166450 166451 166452 166453
166454 166455 166456 166457 166471 166473 166474 166477
166479 166481 166484 166486 166487 166488 166616 166652
166667 166731 166964 166999 167001 167146 167235 167267
167291 167379 167647 167693 167725 167787 167835

## Cessation of Patents

153832 153836 153845 153846 153849 153852 153855 153856
153858 153859 153864 153865 153866 153867 153868 163869
153871 153874 153875 153876 153879 153885 153886 153889
153890 153891 153892 153893 153894 153898 153899 153902
153904 153906 153911 153915 153918 153919 153920 153923
153925 153931 153934 153935 153936 153938 153946 153949
153950 153951 153953 153956 153957 153958 153963 153965
153966 153969

## RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act 1970 for the restoration of Patent No. 151120 granted to Westinghouse Electric Corporation for an invention relating to "var generators."

The patent ceased on the 22nd August 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 9th November 1991.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 30th January, 1992 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

## RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 154457 granted to Cosden Technology for an invention relating to "Process for selectively producing liquid polyisobutenes."

The patent ceased on the 2nd September 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India. Part III, Section 2 dated the 9th November 1991.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4. Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 30th January, 1992 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

## RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 154458 granted to Cosden Technology for an invention relating to "a process for preparing a halogen-containing alumina catalyst.

The patent ceased on the 2nd September 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India. Part III, Section 2 dated the 9th November 1991.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4 Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 30th January, 1992 under Rule 69 of the Patents Rules, 1972 A written statement, in triplicate, setting out the nature of the opponent's interest the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 159542 granted to Satyendra Narayan Mathur for an invention relating to "an attachment for use with a single lens camera for photographing stereoscopic pictures."

The patent ceased on the 21st August 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 9th November 1991.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 30th January, 1992 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 164113 granted to Lal Ratnakar for an invention relating to "continuous pumped water storage system."

The patent ceased on the 15th July 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 9th November 1991.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 30th January, 1992 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 164446 granted to Neste Oy for an invention relating to "cyclic process for producing alkali solution of cellulose carbamate, precipitating the carbamate and recovering the chemicals.

The patent ceased on the 23rd September 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 9th November 1991.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 30th January, 1992 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 164447 granted to Neste Oy for an invention relating to "Cyclic process for producing alkali solution of cellulose caramate, precipitating the caramate and recovering the chemicals.

The patent ceased on the 23rd September 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 9th November 1991.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 30th January, 1992 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 164802 granted to The B.F. Goodrich Company for an invention relating to "a process for producing a thermoplastic material.

The patent ceased on the 8th July 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 9th November 1991.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 30th January, 1992 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 166200 granted to Dr. Niharendu Bikas Sinha for an invention relating to "Process for preparation of novel detoxificating composition containing chelates.

The patent ceased on the 20th May 1991 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 9th November 1991.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 30th January, 1992 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 162595 granted to Mannesmann Aktiengesellschaft for an invention relating to "Process for the production of ferromanganese."

The patent ceased on the 7th December 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 9th November 1991.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 30th January, 1992 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting

out the nature of the opponent's interest the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, given notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Dpot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multipling the same by four to get the charges as the copying charges per page are Rs. 4/-.

**स्वीकृत सम्पूर्ण विनिर्देश**

एतद्द्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अधिक ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत् विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकस्व को ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध संबंधी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए गए वर्गीकरण, भारतीय वर्गीकरण तथा अंतर-राष्ट्रीय वर्गीकरण के अनुरूप हैं।"

नीचे सूचीगत विनिर्देशों की सीमित संख्यक मुद्रित प्रतियां, भारत सरकार बुक डिपो, 8 किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथा समय उपलब्ध होंगी। प्रत्येक विनिर्देश का मूल्य 2/- रु. है (अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग पत्र के साथ निम्नलिखित सूची में यथा प्रदर्शित विनिर्देशों का संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियां यदि कोई हों के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रभार, जिसे उक्त कार्यालय से पत्र व्यवहार द्वारा सुनिश्चित करने के उपरांत उसकी अदायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके, (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

Ind. Class : 32E. 169641

Int. Class[4] : C08F 1/00.

AN IMPROVED METHOD OF FORMING AN AQUEOUS SOLUTIONS OF A TANNIN BASED POLYMER.

Applicant : W. R. GRACE & CO., a Corporation organised and existing under the laws of the State of Connecticut, United States of America of 1114 Avenue of the Americas, New York, New York 10036, United States of America.

Inventors : JANE ELIZABETH QUAMME & ANNE HARRINGTON KEMP.

Application for the Patent No. 41/Del/85 filed on 22nd January, 1985.

Appropriate office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office Branch, New Delhi-110 005.

(13 Claims)

An improved of forming an aqueous solution of a tannin based polymer which comprises heating an aqueous mixture of a tannin, an amino compound which contains, or is capable of generating under the reaction conditions, a primary amino group, and an alhehyde or a compound which generates an aldehyde group under the reaction conditions under acidic conditions, the molar ratio of the primary amino groups of the amino compound to the tannin repating unit being from 1.5 : 1 to 3.0 : 1, at 150°—200°F until the reaction product which forms has a viscosity which is within the key intermediate viscosity range for the reaction system, said range being that for the said system which permits the resulting product to have desired shelf-life, said viscosity range being 2-100 cps when measured at 180°F on a Brookfield LVT viscometer, and terminating the reaction when the viscosity has reached the condition specified above and, if necessary adjusting the solids content of the liquid to 20 to 60% by weight and the pH to a value of less than 3.0.

(Complete Specification—17 pages Drawing—One sheet)

Ind. Cl. : 52B. 169642

Int. Cl.[4] : B65H 35/00 & 35/08.

MACHINE FOR SLITTING CONTINUOUS TAPES INTO STRIPES, IN PARTICULAR WITH CUTTING CYLINDER HAVING VARIABLE SIZE.

Applicant : F.I.C.I. FINANZIARIA INDUSTRIALE COMMERCIALE IMMOBILIARE S.p.A., A COMPANY ORGANISED UNDER LAW OF THE ITALIAN REPUBLIC OF CORSO MATTEOTTI, 8-20121, MILAN, ITALY.

Inventors : GIOVANNI PIETRO CASTIGLIONI.

Application for Patent No. 1021/Del/86 filed on 24 Nov. 1986.

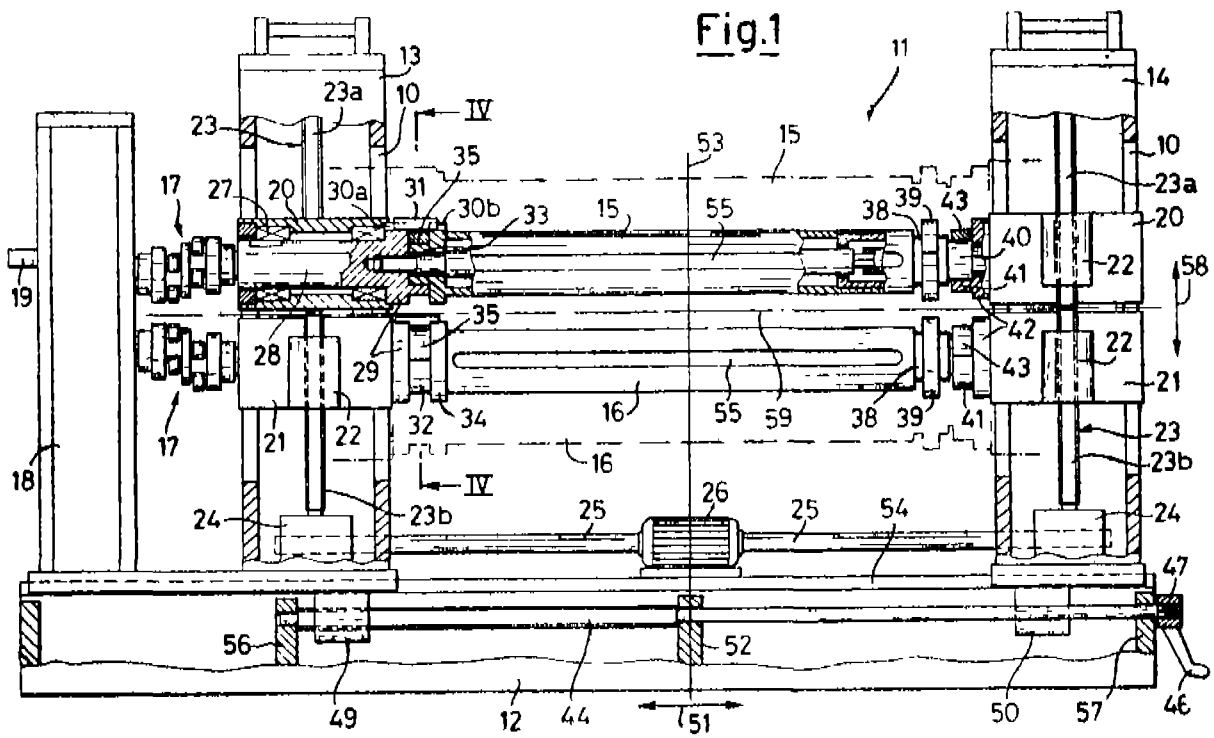
Appropriate office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

(8 Claims)

A machine for slitting continuous tapes into strips which comprises a base (12), a pair of shoulders (13, 14) mounted on said base (12) for supporting therebetween a pair of rotatable cutting cylinders (15, 16) on which a set of cutting elements (not shown) are capable of being provided, drive means (not shown) for imparting rotation to said cylinders (15, 16), said drive means being connected to a reduction gear unit (18) which in turn is connected to one end of said cylinders (15, 16) supported by one (13) of said shoulders characterised in that said shoulders (13, 14) are mounted on guide members (54) provided in said base (12) for horizontal sliding movement thereon, said slidable movement

being permitted by sliding movement translation means (44, 45/49, 50) provided in said base (12) and connected to the lower ends of said shoulders (13, 14) whereby said shoulders (13, 14) can be moved closer together or further apart from each other along said guide members (54), the plane of movement of said shoulders (13, 14) being perpendicular to the direction of feed of the continuous tape being slit and in that the ends of each of said cylinders (15, 16) supported by said shoulders (13, 14) are located within respective slide members (20, 21) provided within said shoulders (13, 14), said slide members (20, 21) being connected to and driven by vertical motion translation (22/23/24/25/26 37) whereby on actuation of said slide members (20, 21) said cylinders (15, 16) are moved vertically closer together or further apart from each other.

Fig.1




(Complete Specification 14 pages. Drawing sheets 3).

Ind. Cl : 24EF LV 134 ALII(1) 169643

Int. Cl. : B 60T 7/12, 8/00

BRAKE ACTUATOR.

Applicant : LUCAS INDUSTRIES PUBLIC LIMITED COMPANY. A BRITISH COMPANY, OF GREAT KING STREET, BIRMINGHAM B19 2XF, ENGLAND.

Inventor : ANTHONY WILLIAM HARRISON.

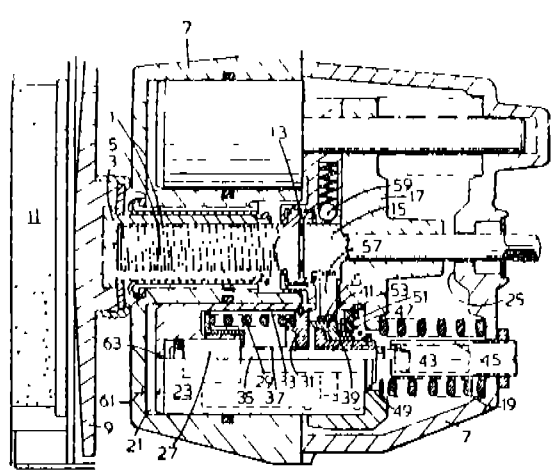
Application for Patent No. 1030/Del/86 filed on 26 Nov 1986.

Convention date Dec 3 1985/8529720/U.K.

Appropriate office for Opposition Proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

(7 Claims)

A brake actuator comprising two adjuster members (1, 3) interconnected by a self-sustaining thread (5) and located between a friction pad (11), and an actuation member (17) located in an actuator housing (7), having at all times operative engagement with said friction pad (11) through said two adjuster members (1, 3) and said self-sustaining thread (5), the actuation member (17) being biassed by a main spring (19) to a brakes-on position with at least one hollow piston (23) being displaceable in the actuator housing (7) by means of hydraulic pressure to compress the main spring (19) and move the actuation member (17) to a brakes-off position, said at least one hollow piston (23) being at all times in direct engagement with said actuation member (17), a second piston (23) being carried within said hollow piston (23) so as to be movable therewith and also being axially displaceable within said hollow piston (23) under said hydraulic pressure and against a further spring (29), to cause interengaging means (39, 41) to at least try to rotate one adjuster member (1 or 3) relative to the other adjuster member (3 or 1), with stop means (43) being provided for limiting the actual movement of said interengaging means (39, 41).




(Complete Specification 13 pages. Drawing Sheet 1)

Ind. Cl : 182-D. 169644

Int. Cl.[4] : C13F 1/00.

A METHOD FOR CLARIFICATION AND FILTRATION OF SUGAR CANE SYRUP.

Applicant : THE ENGINEERING & TECHNICAL SERVICES LTD., NSIC BUILDING, P.O. UDYOG NAGAR, NAINI, ALLAHABAD-211009 (U.P.), INDIA, AN INDIAN COMPANY.

Inventors : NAND KUMAR VERMA & AMIT KUMAR CHATTERJI.

Application for Patent No. 30/Del/87 filed on 16th January 1987 .

Complete Specification left on 14th April, 1988.

Appropriate office for Opposition Proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

(4 Claims)

An improved process for the manufacture of white sugar from sugar cane which comprises preparing a clarified sugar cane juice in a conventional manner and thereafter subjecting said clarified juice to precipitation of sugar characterized in that said clarified juice is concentrated and subjected to a step of coagulation by subjecting said concentrated syrup to a step of continuous slow circulation involving relative movement of liquid layers with respect to the suspended impurities, inorganic and organic salts, thereby developing and growing flocs and/or floc cluster comprising substantially the fine suspended impurities, inorganic and organic salts present in the syrup, whereafter the syrup so obtained having flocculated impurities is subjected to filtration in a filter bed to trap the flocs in said filter bed and to recover a clear concentrated sugar syrup substantially free of suspended impurities, inorganic and organic salts, and finally subjecting said clear syrup to conventional vacuum pan evaporation and centrifugation.

(Provisional Specification 7 pages Drawing 1 sheet)

(Complete Specification 9 Pages).

Ind. Cl. : 195E. 169645

Int. Cl.[4] : F16K 25/00.

VALVE COMPRISING A MOBILE OBTURATING MEMBER AND AN ANNULAR SEAT COMBINED THEREWITH.

Applicant : SOCIETE EUROPEENNE DE PROPULSION, a French company, of 24, rue Salomon de Rothschild, 92150 Suresnes, France.

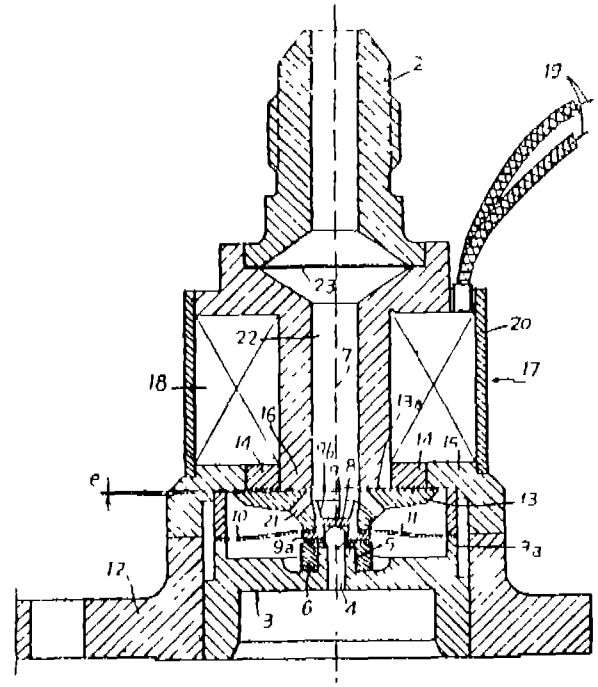
Inventor : DANY GOUHIER

Application for the patent No. 349/Del/87 filed on 21st April, 1987.

Appropriate office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office Branch, New Delhi-110 005.

(6 Claims)

Valve comprising a mobile obturating (8) member and an annular seat (5) combined therewith, said obturating (8) member being movable in a direction perpendicular to the plane of the seat or to move away therefrom, the valve being thus capable of interputing or allowing the flow of a fluid via said seat, charcaterized in that the obturating (8) member, constituted by a ball (8) cooperating with a truncated (5) seat is connected to a support (9) that is fixed in a central circular opening (4) over the periphery of said opening (4), flexible circular (10) diaphragm, disposed parallel to the plane of the seat, said diaphragm (10), mechanically isotropic about its center, being deformable in the direction perpendicular to its plane but substantially undeformable in any radial direction thereof, and in that said diaphragm, welded along its periphery to a base (3) with which the seat is fast, is deformable elastically and prestressed so as to exert a return force on the obturating member urging the latter onto its seat even when the valve is shut.




(Complete Specification 11 pages. Drawing 2 sheets)

Ind. Cl. : 74. 169646

Int. Cl. : D01F 1/10, 8/08.

A PROCESS FOR PRODUCING HYDROPHILIC ACRYLIC FIBRE.

Applicant : SIR PADAMPAT RESEARCH CENTRE, A DIVISION OF J K. SYNTHETICS LTD., OF JAYKAYANAGAR, KOTA-324003, RAJASTHAN, INDIA.

Inventor : ASHOK AMURAT VAIDYA, PURSHOTTAM SHARMA, MISS RATI MEHTA.

Application for Patent No. 851/Del/87 filed on 25 Sep 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972), Patent Office Branch, New Delhi-1110005.

(4 Claims)

A process for producing acrylic fibres having improved absorbency and comfort properties comprising in the step of dissolving acrylonitrile polymer and one or more comonomers as herein described in a known solvent characterised in adding 0.1—10% by weight of zinc chloride to obtain a polymer dope, filtering and wet spinning the dope and obtaining dried fibres in a known manner.

(Complete specification pages 9)

Ind. Cl. 131 $A_2$. 169647

Int. Cl.[4] : E21B 33/00.

EXPANDABLE PACKING SEAL DEVICE FOR A BOREHOLE.

Applicant : UNIVERSITY OF WATERLOO, A CANADIAN AUTONOMOUS BODY, OF WATERLOO, ONTARIO, N2L 3G1 CANADA.

Inventors : DONALD TOON, PETER KURYLLOWICZ, DOUGLAS BELSHAW, PAUL E. JOHNSON & JOHN A. CHERRY.

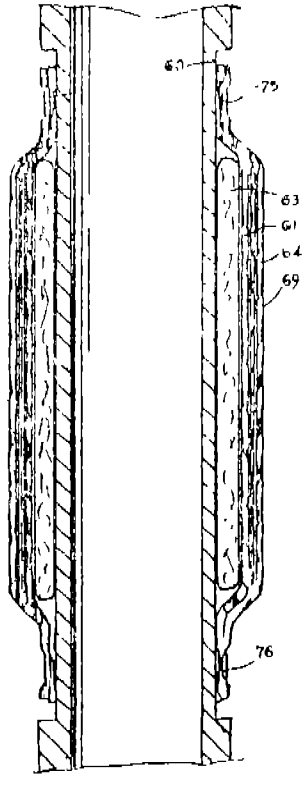
Application for Patent No. 964/Del/87 filed on 09 Nov 1987.

Convention date 14 Nov 1986/8627207/U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972), Patent Office Branch, New Delhi-1110005.

(9 Claims)

An expandable packing seal device for a borehole comprising an expandable annulus (63) (as herein described), having axial length; a supplementary containment sleeve (64) circumferentially surrounding the expandable annulus (63); charcaterised in that said supplementary containment sleeve (64) consists of a unitary sheet of material, said sheet of material extending a substantial circumferential distance around the circumference of the expandable annulus (63); and being provided with upper and lower ends and opposing left and right ends (67, 68); said left and right ends (67, 68) of the encircling sheet overlapping a predetermined distance, said sheet (64) encircling the expandable annulus (63), the sheet (64) being of stiff and non-stretchable material whereby the dimensions of the sheet remain substantially constant when the annulus (64) expands; and wherein over at least a substantial proportion of the axial length of the annulus (63), the left and right ends (67, 68) of the sheet (64) are free of constraint, to the extent that the left and right ends (67, 68) are freely slidable in the circumferential sense relative to each other whereby the circumferential dimension of the supplementary containment sleeve (64) is freely expandable.




(Complete Specification 19 pages. Drawing sheets 3)

Ind. Class : 55 $E_4$ 169648

Int. Class[4] : C07C 9/08.

A PROCESS FOR THE PREPARATION OF 1-[4-(3-TOLYL)-PIPERAZINE-1-YL]-3-THIO 4-SUBSTITUTED PHENYL) PROPANES.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT, (ACT XXI of 1860).

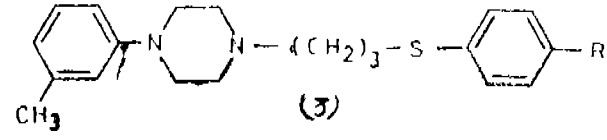
Inventors : JYOTI RAO, ANIL KUMAR SAXENA, RAM MOHAN SAXENA & RIKHAB CHAND SRIMAL.

Application for Patent No. 1153/Del/87 filed on 31 Dec 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972), Patent Office Branch, New Delhi-1110005.

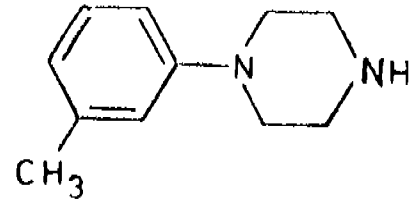
(5 Claims)

A process for the preparation of 1-[4-(3-tolyl)-piperazine-1-yl]-3-[thio(4-substituted) phenyl] propanes of the formula 3 of the drawing accompanying this

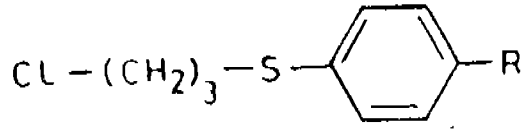



(3)

specification where R represents alkyl, alkoxy, nitro, acetamido group which comprises condensing m-tolypiperazine of the formula 1




with appropriately substitued 1-thio phenyl-3-chloropropanes of the formula 2




where R has the meaning given above in presence of a base and an organic solvent at a temperature ranging from 40—120°C for a period varying between 4-72 hrs, cooling the reaction mixture, adding water to the mixture, separating and purifying the resultant final product of the above defined formula 3 by known methods.

(Complete Specification 7 pages. Drawing sheet 1).

Ind. Class : 32 F 169649

Int. Class[4] : C07D 307/08, 333/08.

PROCESS FOR THE PREPARATION OF NEW TETRAHYDROFURANS AND TETRAHYDROTHIOPHENES.

Applicants : SOCIETE DE CONSEILS DE RECHERCHES ET D'APPLICATIONS SCIENTIFIQUES (S.C.R.A.S.)

Inventors : (1) JEAN JACQUES GODFROID, (2) PIERRE BRAQUET.

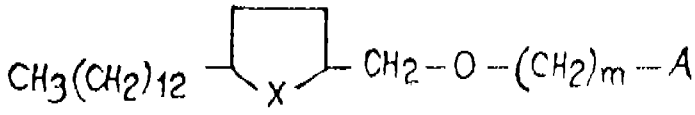
Application for Patent No. 452/Del/88, dated 23rd May, 1988.

Convention date 29th May/1987/8712694/U.K.

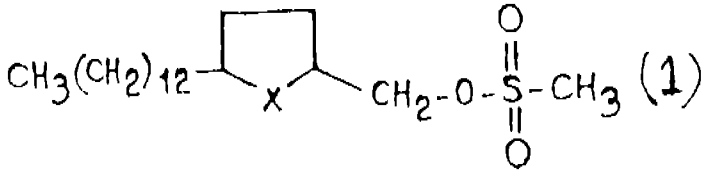
Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972), Patent Office Branch, New Delhi-1110005.

(2 Claims)

A process for the preparation of new tetrahydrofurans and tetrahydrothiophenes of general formula IV as shown in the acompanying drawings



comprising reacting a compound of the formula I



with a compound of formula II

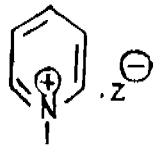
II

NaOB

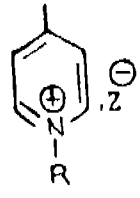
in the presence of solvent such as dimethylformamide at a temperature in the range of from 60 to 80C wherein X represents O or S, m is an integer from 1 to 12, A is a pyridinium salt of th formulae V, VI & VII

~~X~~ XI & XII

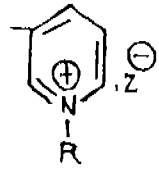
VII



VI

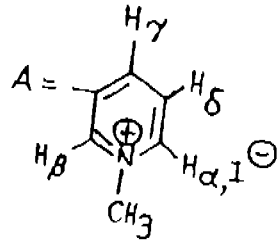


V

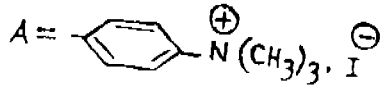


XII

XI

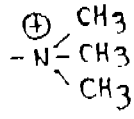


X

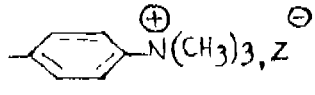


Shown, wherein R stands for H or $CH_3$ an ammonium salt of the formulae VIII, IX.

VIII



IX



and $Z^-$, $Z^-$ being a pharmaceutically acceptable anion, B is either the precursor of A containing an amino group or A itself.

(Complete Specification E pages. Drawings 2 sheets)

Ind. Class : $32A_1$ 169650

Int. Class[4] : A23L 1/00

AN APPARATUS FOR EXTRUDING FOODSTUFFS.

Applicant : HEINZ SCHAAF NAHRUNGSMITTEL-EXTRUSIONSTECHNIK, A GERMAN COMPANY, 14 + 19a, 6277 BAD CAMBERG-OBERSELTERS, WEST GERMANY.

Inventor : HEINZ-JOSEF SCHAAF.

Application for Patent No. 649/Del/88 filed on 28 Jul 1988.

Divisional to Application No. 400/Del/86 filed on 02 May 1986.

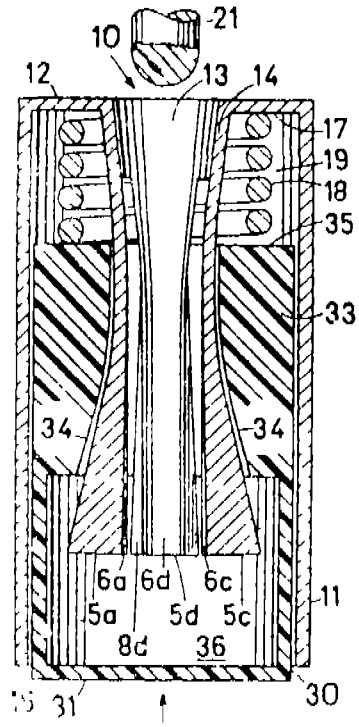
Ante-dated to 02 May 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110005.

5 Claims

An apparatus for extruding foodstuffs comprising an extruder and a cutting means disposed in front of the nozzle head of the extruder characterised in that the nozzel head (14) and the cutting means are arranged in a vacuum chamber (16) provided with evacuating means (18) and that on the vacuum chamber (16) a lock (22) is provided for discharge of the extruder and cut-off foodstuffs.

(Complete Specification 7 pages. Drawing 1 Sheet)




(Compl. Spcn. 11 pages. Drgs. 1 sheet)

Class · 64B-3 169651

Int. Class : H01r 13/10.

AN ELECTRICAL CONNECTOR.

Applicant & Inventor : KAREL HAVEL, 15 KENSINGTON ROAD, 704, BRAMALEA, ONTARIO, CANADA.

Application No. 561/Cal/1988 filld July 6, 1988.

Convention date July 08 1987. No. 541, 574, Canada.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

An electrical connector comprising :

an elongated conducting socket having an opening for inserting a conductor from an insertion side the including a plurality of integral flexible conducting elements extending away from said opening and away from said insertion side; and

a slider member arranged on said socket for reciprocating movement in the direction of elongation of said socket between an engaging position, for deflecting said conducting elements into intimate electrical contacts with said conductor. and a disengaging position, for releasing said conducting elements from said conductor.



Class : 116G 169652

Int. Class : B65g 49/00.

APPARATUS FOR DELIVERYING BULK MATERIAL ONTO A MOVABLE SUPPORT.

Applicant : METALLGESELLSCHAFT AKTIENGESELLSCHAFT, 14, D-6000, FRANKFURT AM MAIN, WEST GERMANY.

Inventor : GERT SCHUSTER.

Application No. 563/Cal/1988 filed July 6, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

An apparatus for delivering bulk material having particle sizes in a large range onto a gas-permeable movable support to form layers differing in particle size comprising

(a) a chute (1) having a circular discharge opening (2) to receive said bulk material to be delivered,

(b) a saddle-shaped distributor (3), which is disposed under the outlet opening (2) of the chute (1) and has a discharge edge (4), which has the shape of an arc of a circle and faces opposite to the direction of conveyance of the immovable support (5), and a ped (6) of bulk material on the saddle-shaped distributor (4),

(c) a buffer bin (7) for receiving the bulk material which has been discharged by the saddle-shaped distributor (3),

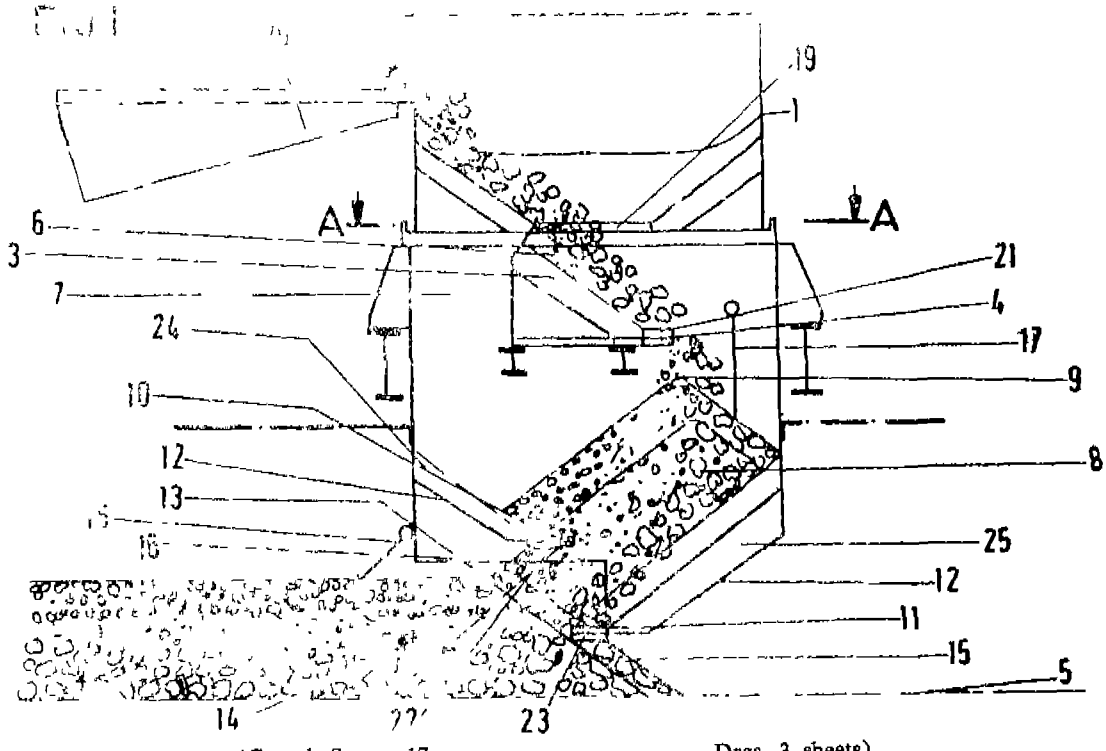
(d) a pile (8) of bulk material, which is contained in the buffer bin (7) and has a ridge (9) of bulk material, which is disposed below the discharge edge (4) of the saddle-shaped distributor and does not extend as far as to the side walls of the buffer bin (7),

(e) wherein the discharge edge (4) which has the shape of an arc of a circle has such a radius that the discharge is effected in a width which is sufficient for the formation of the ridge (9) of bulk material,

(f) a discharge edge (10) which is disposed in the buffer bin (7) as a forward edge in the direction of conveyance of the support (5) and is concave in a horizontal plane,

and a discharge edge (11), which is disposed in the buffer bin (7) as a rear edge in the direction of conveyance and is convex in a horizontal plane and in a vertical direction is disposed below the forward discharge edge (10), wherein the buffer bin (7) has a bottom (12), which is inclined toward the discharge edges (10, 11),

(g) and the discharge edges, (10, 11) are so arranged that straight lines (14 15) extending from the discharge edges (10, 11) at the angle of repose of the bulk material intersect in front of the forward discharge edge (10) at such a location (13) which defines the height of the layer on the support (5).




(Compl. Specn. 17 pages. Drgs. 3 sheets)

Class : 128H 169653

Int. Class : A61f 13/16.

"SANITARY NAPKINS".

Applicant : PERSONAL PRODUCTS COMPANY, VAN LIEW AVENUE, MILLTOWN, NEW JERSEY 08850, UNITED STATES OF AMERICA.

Inventor : RALF KORPMAN.

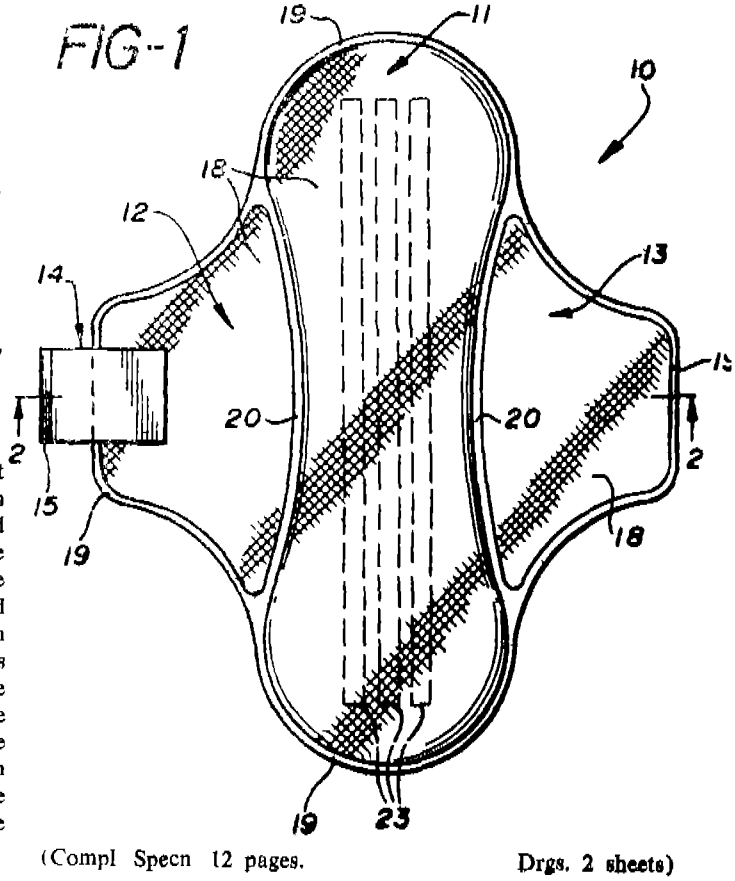
Application No. 564/Cal/1988 filed 6 July, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

In a sanitary napkin comprising a central elongated absorbent portion having side panels extending laterally from each longitudinal edge thereof, said absorbent portion and said side panels being covered on one side with a liquid permeable apertured polymeric film, said side panels being foldable around said central absorbent portion with said apertured polymeric film surface to the outside, charcaterized in an adhesive coated tape tab secured to one of said side panels with a portion of said tape tab extending beyond the edge of said side panel and positioned so that when said side panels are folded around said central absorbent portion, the free end of said tape tab extends over the apertured film surface of the other of said side panels, said adhesive coating of said tape tab having an adhesive to steel value of form about 75 to 140 oz/inch width.

FIG-1




(Compl Specn 12 pages. Drgs. 2 sheets)

Class : $32F_8$, 182C 169654

Int. Class : C08b 37/00.

PROCESS FOR DRY CATIONIZATION OF GALACTOMANNANS (ii).

Applicant : DEGUSSA AKTIENGESELLSCHAFT, 6000 FRANKFUURT AM MAIN, WEISSFRAUENSTRASSE 9, FEDERAL REPUBLIC OF GERMANY.

Inventors : (1) REINHARD STOBER, (2) WOLFGANG FISCHER, (3) MICHAEL HUSS, (4) REIMUND PIETER.

Application No. 570/Cal/1988 filed 7 July, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

2 Claims

Process for dry cationization of galactomannans by reaction with alkylene epoxides in an alkaline medium in the presence of water, characterized in that the reaction is carried out at 5 to 60°C in the presence of 0.1 to 3.0% by wt. dry galactomannans finely divided hydrophilic silica and 0.5 to 8.0% by wt. dry galactomannan alkali mteal silicates and/or aluminates or of a mixtures consisting of alkali metal or alkaline earth metal hydroxides or oxides and alkali metal carbonates or a mixture of one or more of these hydroxides, oxides or carbonates with an alkali metal silicate and/or aluminate, the surface area of the silica being in the range of 60 and 700$m^2$/g.

(Compl. Specn. 10 pages. Drgs. 1 sheet)

Class : 87-I 169655

Int. Class : A63h 33/04.

TOY BUILDING BLOCKS WITH MULTIPLE PIVOTING INTER-CONNECTIONS.

Applicant : FANTASY TOPS INC., P.O. BOX 1282, FAIR OAKE, CALIFORNIA, UNITED STATES OF AMERICA 95628.

Inventor : RONALD LEE LYMAN.

Application No. 573/Cal/1988 filed July 7, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

21 Claims

A toy building block comprising :

a block body, a plurality of pairs of detent arms extending from said body, a plurality of pairs of detent recesses formed in said body, each pair of detent recesses disposed to received one of said pairs of detent arms of a like-formed block in complementary fit fashion, and snap-engaging means for joining said detent arms and said detent recesses in snap-engaging, releasable fashion.

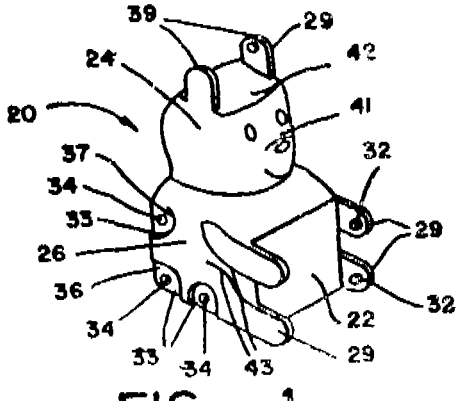



FIG _ 1

(Compl. Specn. 19 pages. Drgs. 4 sheets)

Class : 35E. 169656

Int. Class : C04b 35|00, 35|10, 35|14, 35|50, 35|56, 35|58, B32b 18/00

A HIGH-STRENGTH SINTERED COMPOSITE CERAMIC BODY.

Applicant : HITACHI LTD., 6, KANDA SURUGADAI 4-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : (1) HIROSHI SAKAMOTO, (2) SHIRO UJIMA, (3) KOOJI SATOO, (4) CHOUSHIROU KITAZAWA, (5) KEIZO KIKUCHI.

Application No. 578/Cal/1988 filed July 11, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

4 Claims

A high strength sintered composite ceramic body having an excellent toughness and erosion resistance, characterised by comprising a sintered surface layer as a work surface of a monolithic ceramic material alone and a sintered inside layer of a composite ceramic material containing a dispersion of one or more selected from metals, alloys, oxides, carbides, nitrides, silisides and borides of metals, said surface layer and said inside layer being integrated together in the sintered body, said substance dispersed being in the form of atleast one of particle, whisker and fiber and whereln the thickness t of said sintered surface layer is in the range of 1 to 40%, preferably 5 to 30% of the entire thickness T of said sintered body.

(Compl. Specn. 19 pages. Drgs. 4 sheets)

Class : 136M+172F+205G+H. 169657

Int. Class : D02g 3/48.

"A POLYAMIDE YARN".

Applicant : E. I. DU PONT DE NEMOURS AND COMPANY, LOCATED AT WILMINGTON, DELAWARE, UNITED STATES OF AMERICA.

Inventor : FLEMING HOWARD DAY.

Application No. 587/Cal/1988 filed July 13, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A polyamide yarn especially suitable as a tire yarn having 0.2-2.0 wt % of finish, characterised in that said finish consisting essentially of 50-95 wt % lubricants having a melting point not greater than about 120°C, wherein at least wt. % of the lubricants is pentaethritol tetrapelargonate, 5-50 wt. % of the finish is sorbitan triester adduct having 10-30 moles of ethylene oxide 0-5 wt % of the finish is conventional antioxidant and 0-2 wt. % of finish is a polysiloxane.

(Compl. Specn. 11 pages. Drgs. 1 Sheet)

Class : 89. 169658

Int. Class : G01l 23/18.

"DUAL SIDED PRESSURE SENSOR".

Applicant : INTERNATIONAL CONTROL AUTOMATION FINANCE S.A., VILLE DE LUXEMBOURG, 16 RUE DES BAINS LUXEMBOURG.

Inventor : WILLIAM JAY KAIGLER.

Application No. 589/Cal/1988 filed July 13, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

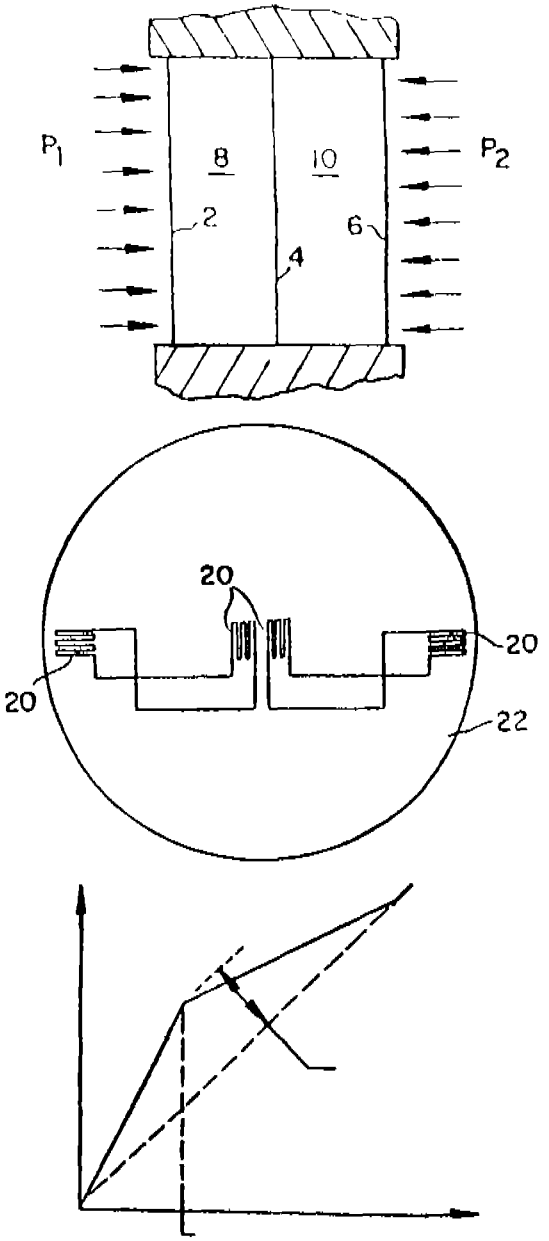
A pressure sensor comprising :

a diaphragm having top and bottom surface for exposure to a pressure to be measured;

a first pair of strain gauge fixed on said top surface at a predetermined radial position of the diaphragm; and

a second pair of strain gauges fixed on said bottom surface substantially at said predetermined radial position;

the said two pairs of gauges being adapted to be connected to a wheatstone bridge for an accurate pressure measurement.




(Compl. Specn. 15 pages. Drgs. 9 sheets)

Class : 9A&D, 35E, 93. 169659

Int. Class : C04b 35|00, 35|56, 35|58, 35|60, C04b 14|00, 20|00, C30b 15|00, 29|36, 29|52.

METHOD OF PRODUCING SELF-SUPPORTING BODIES.

Applicant : LANXIDE TECHNOLOGY COMPANY, LP TRALEE INDUSTRIAL PARK, NEWARK, DELAWARE 19711, U.S.A.

Inventors : (1) DANNY RAY WHITE, (2) MICHAEL KAVORK AGHAJANIAN, (3) TERRY DENNIS CLAAR.

Application No. 591/Cal/1988 filed July 14, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

22 Claims

A method for producing a self-supporting body, which comprises :

(a) selecting a parent metal such as herein described (b) heating said parent metal in a substantially inert atmosphere to a temperature above its melting point to form of moltn metal, and contacting said body of molten parent with a mass comprising boron carbide and optionally boron, (c) miantaining said temperature for a time sufficient to permit infiltration of molten parent metal into said mass and to permit reaction of molten parent metal with said boron carbide to form one or more boron-containing compounds, such as herein described, (d) continuing said infiltration and reaction for a time sufficient to produce said self-supporting body comprising one or more parent metal boron-containing compounds, and optionally, (e) forming said mass by admixing said boron carbide with an inert filler, permitting said infiltration and reaction into said formed mass to embed said filter, and producing a composite as slad self-supporting body optionally including a metallic phase.

(Compl. Specn. 27 pages. Drgs. 4 sheets.)

Class : 195D. 169660

Int. Class : F16k 47/00, 25/00.

SWING CHECK VALVES WITH BUILT-IN INTERNAL CUSHION.

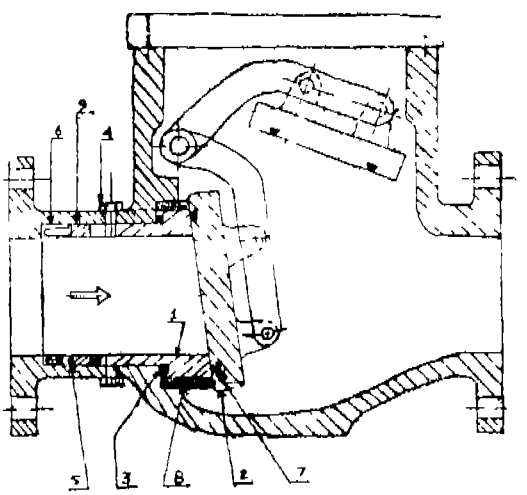
Applicant & Inventors : SHIBA PADA BHATTACHARJEE, PARAMITA BHATTACHARJEE, 15A, N. N. GHOSE LANE, CALCUTTA-700040, INDIA.

Application No. 593/Cal/1988 filed July 15, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A sewing check valve with built-in internal cushion consisting of inlet and outlet, valve seat face (1) and a pivoted flap (2) charcatreised in that the said flap is fitted with an 'O' Ring (7) in a tapered groove to match valve seat face which is a separate piece with an 'O' Ring (3) fitted in a groove under flange, The said valve seat, having a number of small through holes on the face outside the 'O' Ring on the flap is fitted inside the valve inlet bore with free running fit, having two slots on the outer diameter where two screws (4) screwed on the inlet side of the valve body fit. A spring (5) alongwith its retainer (6) is fitted inside the valve inlet bore underneath the valve seat.



(Compl. Specn. 7 pages. Drgs. 2 sheets)

Ind. Class : 204 [GROUP XLI (10)] 169661

Int. Class[4] : G01L 1/22, 5/00

FORCE MEASURING DEVICE.

Applicant : PFISTER GmbH, OF STATZLINGER STR. 70, D-8900 AUGSBURG, FEDERAL REPUBLIC OF GERMANY, A GERMAN COMPANY.

Inventor : HANS W. HAFNER.

Application No. 371/Mas/87 filed on 20th May, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras.

5 Cliams

A force measuring device comprising :

a force receiving member and a support member spaced therefrom, one of said members having a peripheral rim and the other of said members is fitted into said rim forming a narrow annular gap therebetween

a elastomeric material is provided in the said annular gap so as to fill the gap;

a pressure sensor in contact with said elastomeric material;

the force receiving member has on its upper surface a concentric projection which fits into a recess of a force introduction member forming an annular gap therebetween;

a base member provided with a flat upward projection forming a piston which fits into a bottom recess of said support member, said projection and recess being complementary and concentric to each other and a disc of elastomeric material is placed in said recess bearing against the top surface of said projection when said support member is placed on said base member.

(Com. Spec. 12 pages. Drgs. 1 sheet)

Ind. Class : 139G [GROUP-IV(2)] 169662

Int. Class[4] : C01B 17/02, 17/05.

AN APPARATUS AND METHOD FOR LIQUEFYING AND SEPARATING SULFUL FROM A SLURRY OF SUSPENDED SULFUR PARTICLES IN AN AQUEOUS LIQUID.

Applicant : ARI TECHNOLOGIES, INC., AN ILLINOIS CORPORATION, U.S.A., OF 600 NORTH FIRST BANK DRIVE, PALATINE, ILLINOIS 60067, U.S.A.

Inventors : (1) GARY J. NAGL, (2) LESLIE C. HARDISON.

Application No. 370/Mas/87 filed May 20, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras.

6 Claims

An apparatus for liquefying and separating sulfur from a slurry of suspended sulfur particles in an aqueousliquid, comprising :

a first vessel (10) having an upper section with known shell-and-tube heat exchanger (11) with vertical tubes (12) through which said slurry is passed downwardly to liquefy the sulfur contained therein, a lower gravity separation zone (18) in the slurry for separating liquid phases of molten sulfur and aqueous liquid by gravity;

a second vessel (20) having an aqueous liquid outlet at its upper end and a sulfur outlet (23) at its lower end;

a first conduit means (19) in communication with the upper end of the said lower gravity separation zone (18) and an intermediate point in the elevation of said second vessel;

a second conduit means (21) in communication with the lower end of the said lower gravity separation zone (18) and a point adjacent to the lower end of said second vessel (20).

(Com. 11 pages; Drwg. 1 sheet of size 33.00 cms. by 41 cms.)

Ind. Class : 70-B [GROUP-LVIII(5)] 169663

Int. Class[4] : C25B 11/12, C04B 35/52

A METHOD OF MANUFACTURING BAKED ANODES INTENDED FOR THE PRODUCTION OF ALUMINIUM BY ELECTROLYSIS.

Applicant : ALUMINIUM PECHINEY, OF 23, RUE BALZAC, 75008 PARIS, FRANCE, A FRENCH COMPANY.

Inventor : CALUDE VANVOREN.

Application No. 364/Mas/87 filed May 18, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims

A method of manufacturing baked anodes, intended for the production of aluminium by electrolysis, with optimum tar content (Bm) corresponding to the maximum dry density of the anodes, comprising the steps of hot mixing of crushed carbon aggregate and coking tar, shaping by compaction followed by baking characterised in that the percentage by weight of the coking tar added during mixing is varied from an arbitrary initial value (Bo%) in increments of 0.1 to 0.2% by weight, determining the density of the unbaked anode by measuring the dimensions and weight of the compacted anode at each successive values of the tar content, fixing the percentage of tar content at the optimum value ($B_m$.) when the density of the unbaked anode remains consent at two successive values of the tar content wherein the percentage of tar content wherein the percentage of tar content is increased or decreased in the successive stages depending upon whether the first increment in the tar content results in an increase or decrease in the density of the compacted anode respectively.

(Com. 14 pages. Drwgs. 2 sheets)

Ind. Class : 136J [GROUP XIII] 169664

Int. Class[4] : B06B 1/00 & C25C 3/12

A PNEUMATIC SUSPENSION DEVICE FOR A MACHINE FOR COMPACTING CARBONACEOUS BLOCKS.

Applicant : ALUMINIUM PECHINEY, OF 23, RUE BALZAC, 75008, PARIS, FRANCE, A FRENCH COMPANY.

Inventors : (1) CLAUDE VANVOREN, (2) BENOIT COSTE.

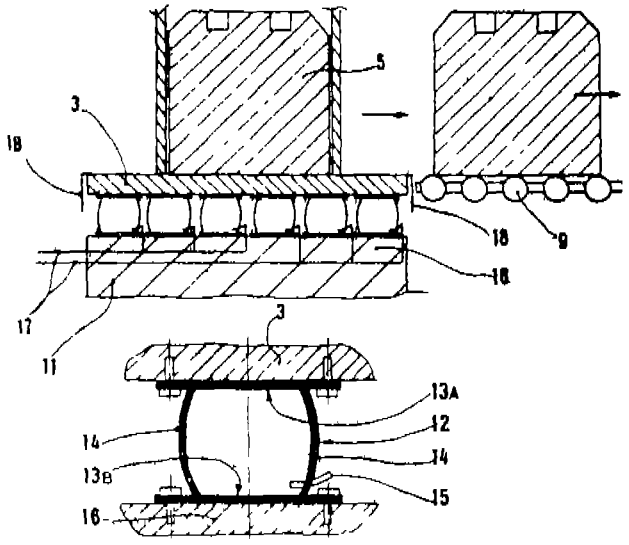
Application No. 359/Mas/87 filed by 15th May, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

9 Claims

A pneumatic suspension device for a machine for compacting carbonaceous blocks for shaping the mass of carbonaceous paste introduced into a mould disposed on a vibrating table (3) supported by a heavy mass (11), generally of concrete, by way of damper means (10), wherein at least a part of the damper means is formed by inflatable cushions (12) having proximity detectors (18) for detecting collapse of the vibration table (3) and switching means for inter-

rupting the vibration in the event of collapse of the vibrating table (3).




(Com. Spec. 12 pages. Drgs. 2 sheets)

Ind. Class : 39-G [GROUP III] 169665

Int. Class[4] : C01F 7/50

AN IMPROVED PROCESS FOR THE PRODUCTION OF ALUMINIUM FLUORIDE TRIHYDRATE.

Applicant : SWISS ALUMINIUM LTD., A COMPANY ORGANISED UNDER THE LAWS OF SWITZERLAND, OF CHIPPIS, SWITZERLAND.

Inventors : (1) ARANKATHU SKARIA, (2) HEINRICH GOELDI.

Application No. 354/Mas/87 filed May 14, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims (No drawing)

An improved process for the production of aluminium fluoride trihydrate which comprises reacting 15 to 25% wt. of hexafluorosilicic acid maintained at a temperature of 80 to 95°C with a stoichiometric amount of up to 5% wt of aluminium hydroxide, maintaining the reaction temperature between 97°C and boiling point up to 15 minutes, filtering off the precipitated silicic acid and crystallising out the aluminium fluoride trihydrate from the filtrate at a temperature of 80 to 100°C wherein the improvement comprises :

(a) filtering the reaction mixture maintained at a pH of between 1.5 and 3 to obtain silicic acid,

(b) crystallising the aluminium fluoride trihydrate from the filtrate obtained in step (a),

(c) washing the silicic acid of step (a) with the mother liquor of step (b) and filtering the silicic acid,

(d) mixing the filtrate of step (c) with the filtrate of step (a),

(e) treating the silicic acid of step (c) with hexafluorosilicic acid at a temperature from 50 to 100°C with agitation,

(f) filtering the reaction mixture to obtain silicic acid,

(g) washing the resulting silicic acid with water and filtered; the filtrate is mixed with the filtrate of step (f),

(h) the filtrate of step (g) is reacted with aluminium hydroxide and heated to boiling point for 10 to 15 minutes under agitation and repeat steps (a) and (b) to obtain aluminium fluoride trihydrate.

(Com. 8 pages).

Indd Class : 204 [GROUP XLI(10)] 169666

Int. Class[4] : G01G 13/00

APPARATUS FOR WEIGHING BATCHES OF A FREE FLOWING MATERIAL.

Applicant : EDELEANU GESELLSCHAFT mbH, A GERMAN COMPANY OF STRESEMANNALLEE 36, 6000 FRANKFURT/MAIN, FEDERAL REPUBLIC OF GERMANY.

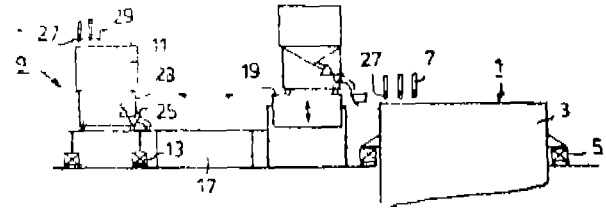
Inventor : JOACHIM E. PUTZ.

Application No. 336/Mas/87 filed May 8, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

6 Claims

Apparatus for weighing batches of a free flowing material comprising at least a primary weighing section having a primary weighing tank for a complete batch and at least one precision weighing section having at least one precision weighing tank for an additive, characterised in that carriage means are provided for transferring the precision weighing tank to adjacent the primary weighing tank and means for establishing communication from the precision weighing tank to the primary weighing tank when the precision weighing tank is adjacent the primary weighing tank to enable the additive to be transferred from the precision weighing tank to the primary weighing tank.




(Com. 10 pages. Drwgs. 1 sheet)

Ind. Class : 40-B [GROUP IV(1)] 169667

Int. Class[4] : C01B 33/28

A PROCESS FOR PREPARING A NOVEL ZEOLITE (SSZ-25).

Applicant : CHEVRON RESEARCH COMPANY, A CORPORATION DULY ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A., OF 555 MARKET STREET, SAN FRANCISCO, CALIFORNIA 94105, U.S.A.

Inventor : STACEY I. ZONES.

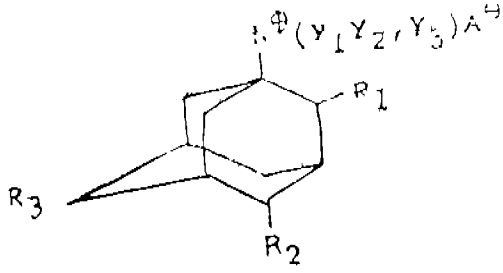
Application No. 335/Mas/87 filed May 8, 1987.

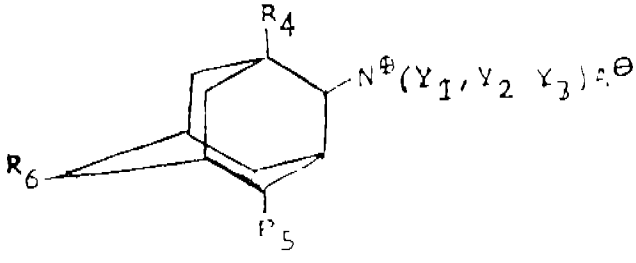
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

4 Claims

A process for preparing a novel zeolite having the x-ray diffraction characteristics shown in Table 1, comprising the steps of (a) preparing an aqueous mixture of (i) an adamantane quarternary ammonium ions (Q) derived from an adamantane compound of the formula I or formula II of the accompanying drawings in which each of $Y_1$, $Y_2$ and $Y_3$ are independently lower alkyl $\bar{X}$ is an anion not detrimental to the formation of the Zeolite, and each of $R_1$, $R_2$, $R_3$, $R_4$, $R_5$ and $R_6$ are independently hydrogen or lower alkyl; (ii) an oxide having the formula $YO_2$ in which Y is selected from silicon germanium or mixtures thereof and (iii) an oxide having the formula $W_2O_3$ in which W is selected from aluminium galium, iron, boron and mixtures thereof; (b) maintaining the said aqueous mixture at a temperature of at least 140°C until the crystals of said zeolite

is formed, (c) recovering said crystals in a known manner; wherein the mole ratio of $YO_2$ to $W_2O_3$ is between 20 to 50 and the mole ratio of Q to $YO_2$ is between 0.15 to 0.5.





(Com. 20 pages. Drwgs. 1 sheet)

Ind. Class : 40B [GROUP IV(1)] 169668

Int. Class⁴ : C01B 33/28

A PROCESS FOR PREPARING A NOVEL ZEOLITE (SSZ-24).

Applicant : CHEVRON RESEARCH COMPANY, A CORPORATION DULY ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 555 MARKET STREET, SAN FRANCISCO, CALIFORNIA 94105, UNITED STATES OF AMERICA.

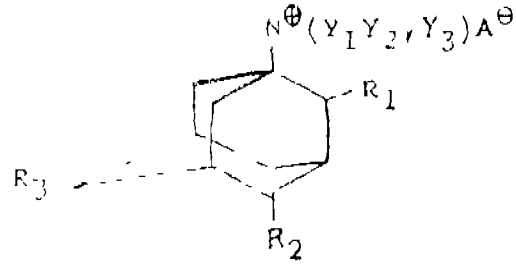
Inventor : STACEY I. ZONES.

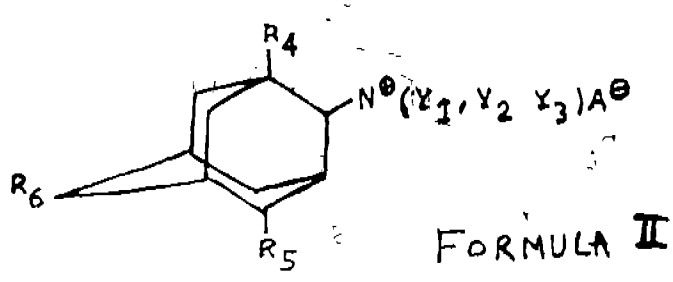
Application No. 334/Mas/87 filed on 8th May, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

4 Claims

A process for preparing a novel zeolite having the X-ray diffraction characteristics shown in Table 1. comprising the steps of (a) preparing an aqueous mixture of (i) an adamantane quaternary ammonium ions (Q) derived from an adamantane compound of the formula I or formula II of the accompanying drawings in which each of $Y_1$, $Y_2$ and $Y_3$ are independently lower alkyl, A is an anion not detrimental to the formation of the zeolite, and each of $R_1$, $R_2$, $R_3$, $R_4$, $R_5$ and $R_6$ are independently hydrogen or lower alkyl; (ii) an oxide having the formula $YO_2$, in which Y is selected from silicon, germanium of mixtures thereof and (iii) oxide having the formula $W_2O_3$ in which W is selected from aluminium, gallum, iron, boron and mixtures thereof; (b) maintaining the said aqueous mixure at a temperature of at least 140°C until the crystals of said zeolito is formed; (c) recovering said crystals in a known manner; wherein the mole ratio of $YO_2$, to $W_2O_3$ is greater than 1500 and the mole ratio of Q to $YO_2$ is in the range of 0.05 to 0.50.





FORMULA II

(Com. Spec. 18 pages. Drgs. 1 sheet)

Ind. Class : 40-B [GROUP IV(1)] 169669

Int. Class⁴ : C01B 33/28

A PROCESS FOR PREPARING A NOVEL ZEOLITE (SSZ-23).

Applicant : CHEVRON RESEARCH COMPANY, A CORPORATION DULY ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 555 MARKET STREET, SAN FRANCISCO, CALIFORNIA 94105, UNITED STATES OF AMERICA.

Inventor : STACEY I. ZONES.

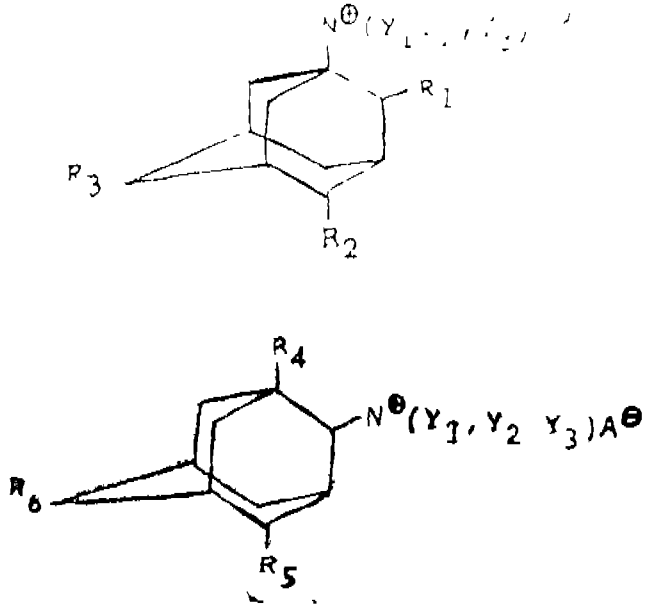
Application No. 333/Mas/87 filed May 8, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

4 Claims

A process for preparing a novel zeolite having the X-ray diffraction characteristics as shown in Tabe 1, comprising the steps of (a) preparing an aqueous mixture of (i) an adamantane quaternary ammonium ion (Q) derived from an adamantane compound of the formula I or formula II of the accompanying drawing in which each of $Y_1$, $Y_2$ and $Y_3$ are independently lower alkyl, A is an anion not detrimental to the formation of the zeolite, and each of $R_1$, $R_2$, $R_3$, $R_4$, $R_5$ and $R_6$ are independently hydrogen or alower alkyl; (ii) an oxide having the formula $YO_2$ in which Y is selected from silicon, germanium or mixutres thereof; and (iii) an oxide having the formula $W_2O_3$ in which W is selected from aluminium, galium, iron boron and mixtures thereof; (b) maintaining the said aqueous mixture at a temperature of at least 140° C until the crystals of said zeolite is formed; (c) recovering said crystals in a known manner; wherein the mole ratios of $YO_2$ to $W_2O_3$ is in the range

50 to 1500 and the mole ratio of Q to $YO_2$ is in the range of 0.05 to 0.08.



(Com. 24 pages, Drwgs. 1 sheet)

Ind. Class : 32-F-3(a) [GROUP-IX(1)] 169670

Int. Class[4] : C07C 41/05, 41/34

AN IMROVED PROCESS FOR PREPARING ALKYL-TERT-BUTYL ETHERS.

Applicant : SNAMPROGETTI S.p.A., A COMPANY ORGANIZED UNDER LAW OF ITALIAN REPUBLIC OF CORSO VENEZIA, 16, MILAN, ITALY.

Inventors : (1) ERMANNO PESCAROLLO, (2) FRANCESCO ANCILLOTTI.

Application No. 328/Mas/87 filed May 6, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

2 Claims

An improved process for the preparation of alkyl-tert-butyl ethers from $C_4$ hydrocarbons containing 10% to 70% by weight of isobutene comprises reacting the isobutene contained in the $C_4$ charge with aliphatic alcohol in one or more reaction steps at a temperature not higher than 60°C in the presence of a macroporous sulphonated resin such as herein described and separating the alkyl-tert-butyl ethers from the unerected portion by distillation; the improvement comprises reducing the dissolved oxygen to less than 2 ppm from the aliphatic alcohol and/or $C_4$ hydrocarbons by distillation prior to the reaction.

(Com. 10 pjages. Drwgs. 1 sheet)

Class : 129-J, 188. 169671

Int. Class : C25d 3/00, C25c 4/00, B65g 39/00.

ROLLER FOR MATERIAL TO BE TRANSPORTED.

Applicant : SCHMIDT+CLEMENS GMBH + CO.,5253 LINDI AR, FEDERAL REPUBLIC OF GERMANY.

Inventor : DIPLING WILLI KNUT WEBER.

Application No. 594/Cal/1988 filed July 15, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

Roller for material to be trasported, particularly for continuously running furnaces with a hollow roller body consisting of a heat and corrosion resistant non-metallic material like ceramic or the like and at least one rotational bearing surface charcaterised in that, the hollow space (11) of the roller body (10), at least the region of transporting (13, 13'), is filled up with a heat resistant filling material (12), which has co-efficient of expansion, corresponding to that of the ceramic material of the roller body, along with tension reinforcing liner (15).

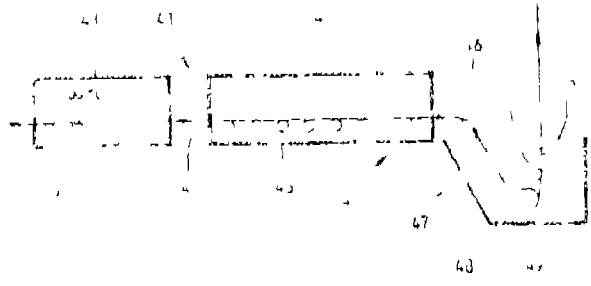
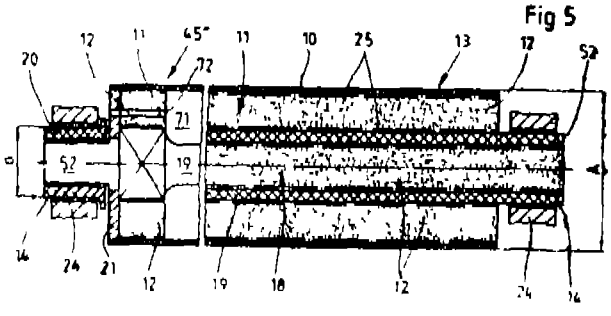


Fig 5



(Compl. Specn. 23 pages. Drgs. 4 sheets)

Class : 179G 169672

Int. Class : B65d 90/00, 90/12.

A WIDE-BODY SHIPPING CONTAINER ADAPTED FOR ENGAGEMENT WITH STANDARD-WIDTH CONTAINER SUPPORTS.

Applicant : ROSBY CORPORATION, 117 N. WALNUT STREET, MONON, INDIANA 47959, UNITED STATES OF AMERICA.

Inventor : HOWARD JOSEPH YURGEVICH.

Application No. 611/Cal/1988 filed July 21, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

7 Claims

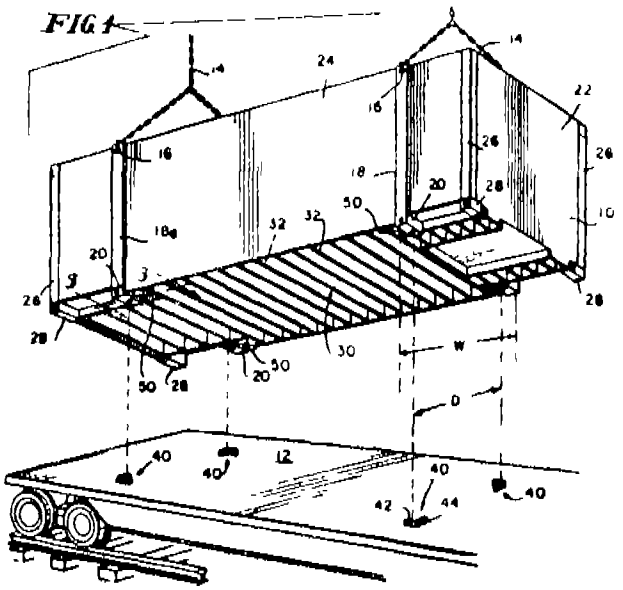
A wide-body shipping container adapted for engagement with standard-width container supports, the container comprising a body stackable with other bodies of the same or different length and width including vertically disposed and uniformly spaced frame means for supporting the body during shipment and handling; the frame means including an outer surface, and coupling members at the lower ends of the frame means for coupling the body to other frame means and container supports, each coupling member comprising.

a laterally outer side generally coplanarly situated with the frame means outer surface, forward, rearward, and inner sides fixed to the outer side, and a lower surface fixed to the coupling member sides, and

an adapter pivotally connected to each coupling member, the adapter being movable to a position below the coupling

member lower surface and engageable therewith so that the adapter has a laterally outer surface spaced inwardly from said coupling member laterally outer side to permit coupling of the container to a standard-width container support.

FIG 1



(Compl. Specn. 14 pages. Drgs. 2 sheets)

Class : 99-C 169673

*Int.* Class : B65d 8/22.

PROCESS AND APPARATUS FOR THE MANUFACTURE OF BUNG-BARRELS THEREBY PRODUCED.

Applicant : SOTRALENTA S.A., 24, RUE DU PROFESSEUR-FROEHLICH, 67 320 DRULINGEN, FRANCE.

Inventors : (1) PIERRE PFEIFFER, (2) BENOIT CHEVAL, (3) PAUL SIGWALT.

Application No. 625/Cal/1988 filed July 28, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

3 Claims

A process for the manufacture of a bung barrel from thermoplastic material with bottom part, top cover part and shell, wherein the bottom part and the top cover part have a shell section and also form one half of the bung barrel and the two halves of the bung barrel are joined by a circular joint seam under the application of heat, the method comprising the steps of :

disposing the two halves of the bung barrel in a axially movable relationship;

movably supporting each of the halves of the bung barrel;

moving each half towards one another in the axial direction;

establishing a suction over the periphery of each half in face to face relationship to provide a jointing seam in each half;

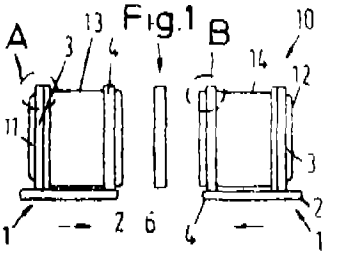
heating the jointing means of the two halves;

centering the two halves; and

moving the halves towards each other and uniting the halves to provide a jointed but welding seam.

7—347GI/91

Fig.1



(Compl. Specn. 10 pages. Drgs. 3 sheets)

Class . 27-O 169674

Int. Class : E041 13/00.

WALL PANEL DEVICE.

Applicant & Inventor : KARL GLOCKENSTEIN, MAUNTNER MARKHOFGASSE 94, 1110 VIENNA, AUSTRIA.

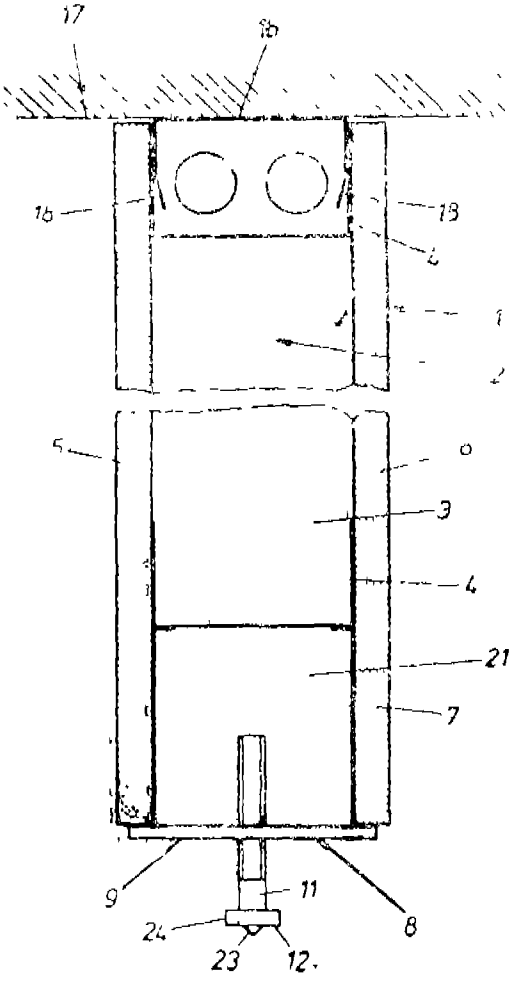
Application No. 630/Cal/1988 filed July 29, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

16 Claims

Wall panel device, suitable in particular for the interior construction of buildings, having one or more wall panels comprising a bearing frame comprising U or C profiles comprising metal or more especially steel or plastic, covering sheets being affixed to both sides of said bearing frame, which are preferably gypsum board, a filling arranged between said covering sheets comprising heat and/or acoustic insulating material which is preferably mineral wool, said wall panel comprising furthermore a bracing device situated at one or more edges of said bearing frame serving to compensate for differences in dimension between said wall panel and the building structure accommodating said wall panel, whereby one or more parts of said bearing frame can be recesable or can be recessed relative to one or mode edge surfaces of one or more covering sheets, whereby serving to secure said wall panel to said building structure, especially to ceilings, and, if required in order to connect two adjacent wall panels, are one or more bearing parts comprising a known U or C profile that extends or can be guided only into the space between said covering sheets and having profile shanks that extend or are capable of being guided only into said space, said shanks being furthermore bent at least at their ends, advantageously up to approximately half the length of said shanks, toward the median of said profile and enclosing together with the median profile plane an acute angle, whereby the web of said U or C profile features securing means, which are advantageously slots, for anchoring said bearing part and thus said wall panel to said building structure, which is especially the ceiling, and wherein said bearing frame comprises inside the edge zone facing said bearing part a U or C profile that is separate from said bearing part and arranged only between said covering sheets, said U or C profile opening towards said bearing part, the shanks of said U or C profile being separated by a distance greater than the distance separating the outer surfaces of said shanks of said bearing part, and wherein said bearing frame features, in the sides or zones of said wall panel, removed from said bearing part, preferably in the zone of said wall panel spaced from said bearing part, in particular on the floor side of said wall panel, inside only said covering sheets,

U or C profiles having an outwardly oriented web and a consequently inwardly opening profile.




Compl. Specn. 32 pages Drgs. 15 sheets)

Class : 15C&D. 169675

Int. Class : F16c 17/00, 29/02.

A HEAVY DUTY SLIDING SURFACE BEARING.

Applicant : MIBA GLEITLAGER AKTIENGESELLSCHAFT, HAUPTSTRASSE 3, A-4663 LAAKIRCHEN, AUSTRIA.

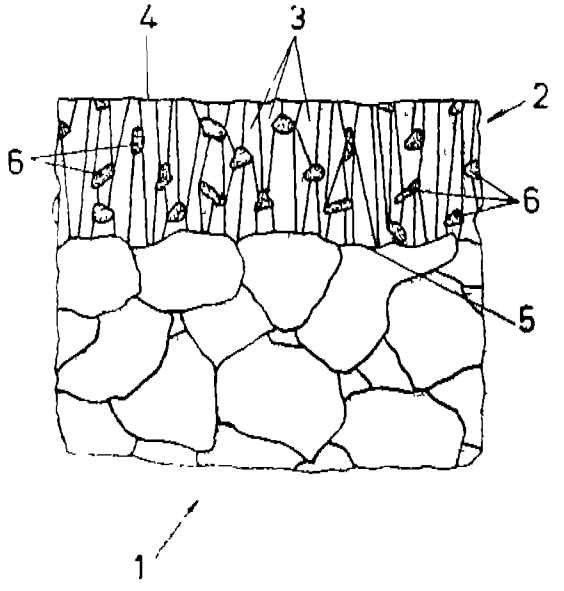
Inventors : (1) DR. FRANZ KOROSCHETZ, (2) DIPL. ING. WALTER GARTNER.

Application No. 635/Cal/1988 filed on July 29, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

9 Claims

A heavy duty sliding surface bearing comprising a sliding surface layer, which has physically been applied in a vacuum directly to a substrate by cathode sputtering and vacuum deposition assisted by ion sputtering, preferably to a bearing metal layer and which consists of a matrix that contains finely divided inclusions which are substantially insoluble at the operating temperature, characterized in that all inclusions have a lower hardness than the matrix, the inclusions have an average particle size below 3 um, the matrix of the sliding surface layer has been crystallized in the form of columnar crystallites having a preferred orientation at right angles to the sliding surface, and the main constituents of the alloys of the substrate and of the sliding surface layer consist of metals which will not form intermetallic compounds at the operating temperature in which the main constituents of the sliding surface layer and of the substrate consist of aluminium, copper, iron, nickel or silver and the softer inclusions consists of tin lead or birmuth and that the contents of softer inclusion in the sliding surface layer amounts to 5 to 45% by volume.




(Compl. Specn. 15 pages. Drgs. 1 sheet)

Class : 88-F 169676

Int. Class : F23d 11/08.

A MULTIPLE PARALLEL PACKED COLUMN VAPORIZER FOR VAPORIZING A CHEMICAL COMPOSITION.

Applicant : ATOCHEM NORTH AMERICA, INC., 3, PARKWAY, PHILADELPHIA, PENNSYYLVANIA 19102, UNITED STATES OF AMERICA.

Inventor : CLEM MCKOWN.

Application No. 636/Cal/1988 filed on August 1, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

11 Claims

A multiple parallel packed column vaporizer for vaporizing a chemical composition having a relatively low decomposition temperature to produce a mixture comprised of a high concentration of vaporized chemical composition entrained in a gas, the vaporizer comprising :

a shell open at its upper and lower ends;

a plurality of vaporization columns arranged in said shell in a substantially vertical orientation, said vaporization columns having inner walls and upper and lower open ends;

distribution means being provided at upper open end of said shell, for distributing said chemical composition substantially equally to said upper open ends of said vaporization columns;

heating means being provided with said shell for heating said vaporization columns to vaporize said chemical composition therein; and

gas supply means being provided at the lower end of said shell, for supplying said gas to said lower ends of said vaporization columns to produce said mixture.

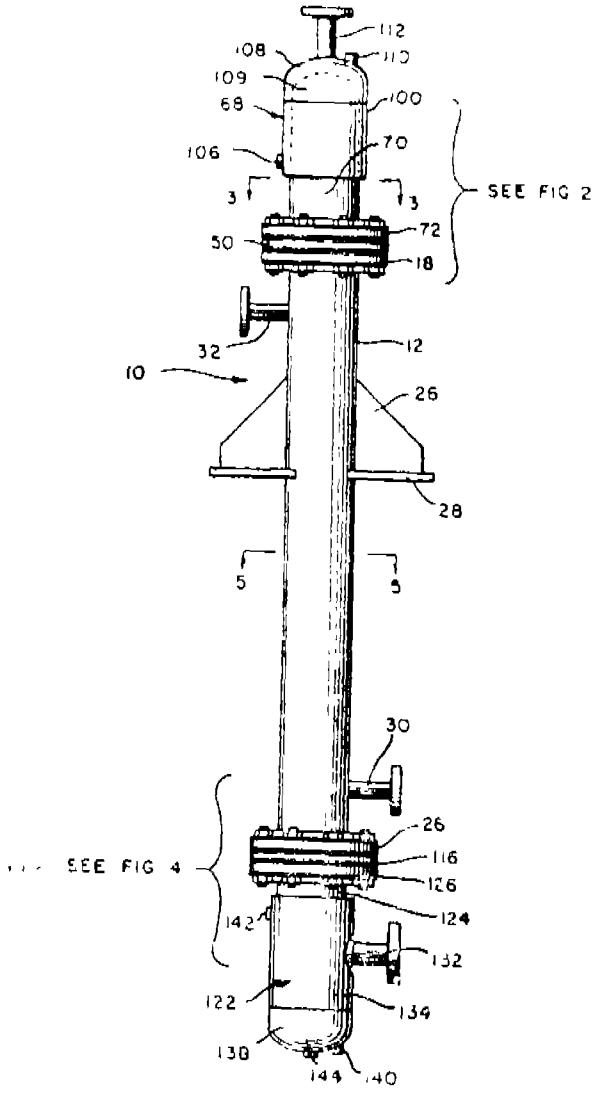
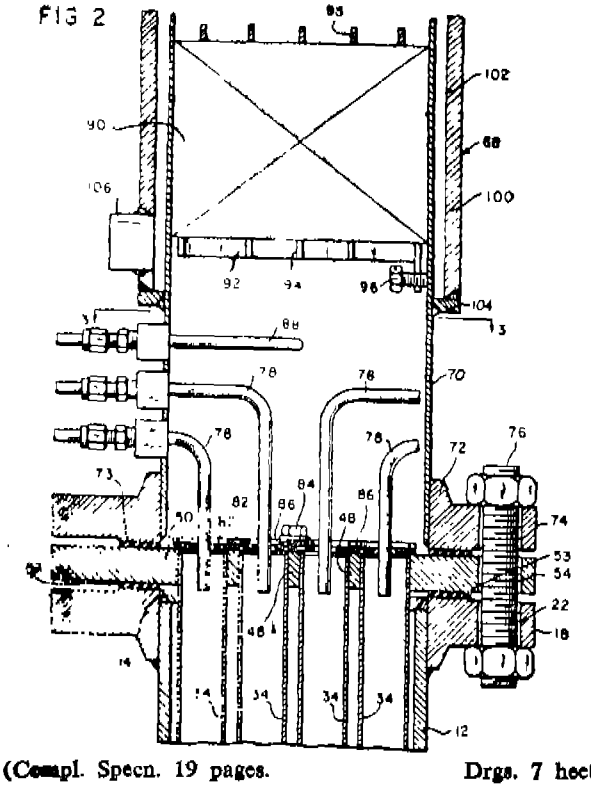



FIG 2




(Compl. Specn. 19 pages. Drgs. 7 sheets)

Class : 83B1. **169677**

Int. Class : A23l 3/36.

"FREEZING DEVICE".

Applicant : FRIGOSCANDIA CONTRACTING AB., BOX 913, S-251 09 HELSINGBORG, SWEDEN.

Inventor : CHRISTER LOFKVIST.

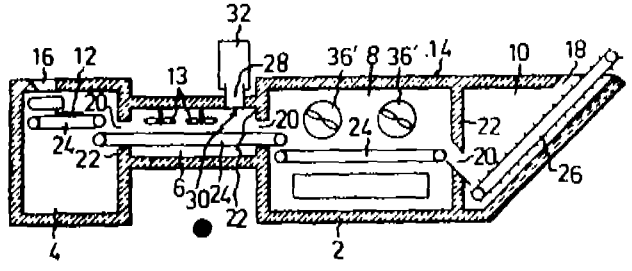
Application No. 661/Cal/1988 filed on August 4, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

9 Claims

Freezing device using a cooling medium which takes up heat during the freezing process and which then at least partly changes its state to gaseous state, which device is designed as a substantially closed container having a top side (14) provided with a feed and a discharge opening (16, 18), charcaterized in that the feed and discharge openings (16, 18) are located above a predetermined level of the gaseous part of the cooling medium in the container, which cooling medium when in the gaseous state is heavier than air, and that a first tube (28) extends through a further opening (30) in the top side (14) of the container and forms an overflow, whereby the level of the cooling medium in the freezing device is maintained constant and excess cooling medium is removed via said overflow.

FIG. 2




(Compl. Specn. 13 pages. Drgs. 2 sheets)

Class : 32-C **169678**

Int. Class : C07c 126/02.

PROCESS FOR ENHANCED UREA PRODUCTION.

Applicant : AUSTRAL-PACIFIC FERTILIZERS LTD., PARINGE ROAD, GIBSON ISLAND, MURRARIE, QUEENSLAND 4170, AUSTRALIA.

Inventors : (1) MAX LINTON, (2) ANTHONY MARTIN BROWN.

Application No. 663/Cal/1988 filed on August 4, 1988.

Convention date 13 August 1987, No. PI 3711 Australia.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

13 Claims

A process for the production of urea which comprises the steps of reacting carbon dioxide and ammonia at a temperature in the range of 140 to 250°C and a pressure in the range of 15 to 50 MPa to form ammonium carbamate, and subsequent decomposition of ammonium carbamate to form a reaction mixture comprising urea and water,, characterised in that the reaction mixture is contacted with one side of a semipermeable membrane and a drying fluid capable of removing water and possibly other reaction product(s) from the reaction mixture is contacted with the other side of the semi-permeable membrane, and urea is recovered from the reaction mixture and optionally from the drying fluid after contact of the reaction mixture with the semi-permeable membrane.

(Compl. Specn. 19 pages. Drgs. 3 sheets)

Class : 20-B 169679

Int. Class : F16J 15/54.

MAGNETIC-TYPE END FACE SEAL ASSEMBLY.

Applicant : BURAMETALLIC CORPORATION, 2104 FACTORY STREET, KALAMAZOO, MICHIGAN, U.S.A.

Inventors : (1) WILLIAM VICTOR, (2) DUANE ARTHUR AVARD, (3) LEROY ALVIN WALING.

Application No. 672/Cal/1988 filed on August 8, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

7 Claims

A magnetic-type end face seal assembly for creating a sealed relationship between a housing and a rotatable shaft which projects coaxially outwardly from a bore which opens inwardly from an end wall of the housing, said seal assembly being characterized by :

annular insert means (51) stationarily positioned within said bore (17) in surrounding relationship to said shaft (12), said insert means including a one-piece insert ring (52) of magnetically attractable material, said insert ring having bore means (63, 64) extending axially there through and of a diameter larger than said shaft so that said shaft can project through said bore means free of contact with said insert ring;

said insert ring (52) defininig a substantially planar annular first seal face (53) on an outer axial end surface thereof;

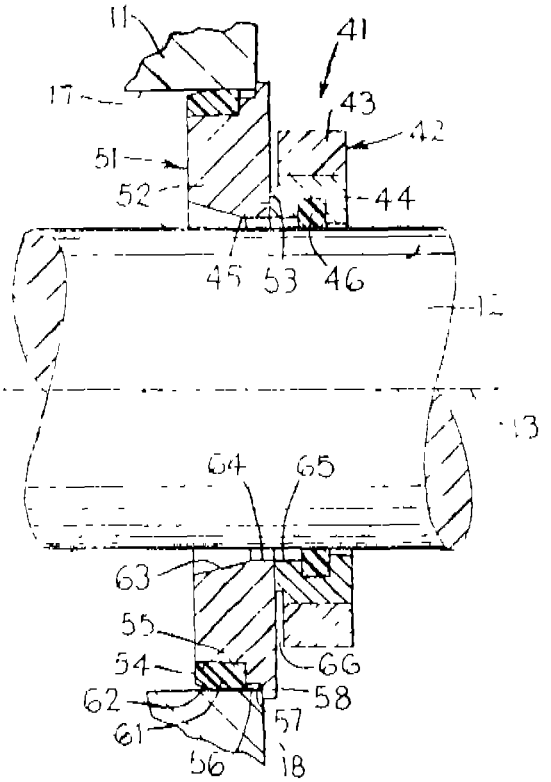
said insert means including a seat member (61) formed as a one-piece ring disposed in external and circling relationship to said insert ring, said seat member being stationarily and fixedly mounted on said insert ring (52) and having a non-circular cross section;

said seat member (61) being of a hard synthetic resin material having only little elasticity, said seat member when in a non-deformed condition having a maximum outer diameter which slightly exceeds the diameter of said housing bore (17) so that the seat member undergoes a very small radial deformation when inserted into said bore to create a stationary and sealed engagement with the wall defining the housing bore;

rotating ring means (42) disposed in surrounding relationship to and non-rotatably coupled to said shaft (12) for rotation therewith, said rotating ring means being positioned axially adjacent said insert means (51);

said rotating ring means (42) including a ring member (44) having a substantially planar annular second seal face (45) formed on an inner axial end surface thereof, said second seal face being disposed in a plane which is substantially perpendicular to the axis of said shaft, said second seal face (45) being positioned directly opposite and maintained in engagement with said first seal face (53); and

said rotating ring means (42) also including magnet means (43) stationarily mounted on said member (44), said magnet means being radially spaced from said shaft and positioned closely axially adjacent but separated from said insert ring (53) by a small axial gap, said magnet means cooperating with said insert ring to create a magnetic attracting force which tends to urge said rotating ring means and said insert means axially toward one another for maintaining said first and second seal faces in engagement with one another.




(Compl. Specn. 16 pages. Drgs. 1 sheets)

Class : 129-B 169680

Int. Class : B21c 37/08.

PROCESS AND APPARATUS FOR THE MANUFACTURE OF A LONGITUDINAL-SEAM-WELDED TUBE.

Applicant : KABELMETAL ELECTRO GMBH, 3000 HANNOVER 1, KABELKAMP 20, WEST GERMANY.

Inventors : (1) DR. ING. GERHARD ZIEMEK (2) ING. HARRY STASCHEWSKI.

Application No. 680/Cal/1988 filed on August 10, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

7 Claims

Process for the manufacture of a longitudinalseam-welded tube comprising the steps of :

controllably driving a metal strip in a first longitudinal direction;

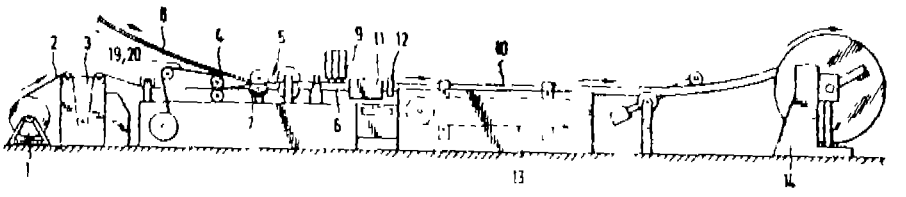
continuously trimming the side edges of the metal strip;

continuously forming the trimmed metal strip into a hollow tubular member;

continuously welding longitudinally abutting edges of the hollow tubular member;

continuously cooling the hollow tubular member in the vicinity of the welding by surrounding at least 60% of its circumferential surface with a coolant, while maintaining the resulting longitudinal welded seam free of the coolant; and

continuously drawing the cooled hollow tubular member in said first longitudinal direction.



(Compl. Specn. 20 pages. Drgs. 3 sheets)

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of the registration of the design included in the entry.

Class 1. No. 163147. Bharat Industries, Sardar V. P. Road, Janta Garden Chowk, Rajkot-360 002, Gujarat State, India, Indian Partnership firm. "Knife". 15th April, 1991.

Class 1. No. 163168. Bharat Industris, Sardar V. P. Road, Janta Garden Chowk, Rajkot-360 002, Gujarat State, India, Indian Partnership firm. "Knife". 25th April, 1991.

Class 1. No. 163382. Bajaj Electricals Limited, an Indian Company incorporated under the Companies Act, having office at 45-47, Veer Nariman Road, Bombay-400 023, in the State of Maharashtra, within the Union of India. "Ceiling Fan". 5th July, 1991.

Class 1. No. 163510. Bala Kishan Javar, Gunduvari Street, Rajahmundry, Andhra Pradesh (India), an Indian "Singasan". 12th August, 1991.

Class 3. No. 163131. Aromatan Perfumes Private Limited, a Company registered under the Indian Companies Act, 1957 and having its registered office at 32, Hassa Mahal, Dalamal Park, Cuffe Parade, Colaba, Bombay-400 005, State of Maharashtra, India. "Cap of a Bottle". 11th April, 1991.

Class 3. No. 163134. Aromatan Perfumes Private Limited, a Company registered under the Indian Companies Act, 1957 and having its registered office at 32, Hassa Mahal, Dalamal Park, Cuffe Parade, Colaba Bombay-400 005, State of Maharashtra, India. "Bottle". 11th April 1991.

Class 3. Nos. 163150 & 163151. Sri Saragreeva Enamel Slate Industries, a Partnership firm of 7/5, High School Road, Markapur 523316, Andhra Pradesh, India. "Slate". 16th April, 1991.

Class 3. No. 163231. Forma-Pack, L.P., California Limited Partnership of 2380 North Wilcox Road, Stockton, California 95215, United States of America. "6-Pack Carrier for Containers". 7th May, 1991.

Class 3. No. 163271. Nissei Ash Machine Co. Ltd., a Japanese Corporation of 4586-3 Koo, Komoro-shi, Nagano-ken, Japan. "Bottle". 29th May, 1991.

Class 3. No. 163278. Ashish Enterprises, Irani Building, Ground Floor, 303, Cawasji Street, Bombay-400 002, State of Maharashtra, India, an Indian Partnership firm. "Clip Board". 30th May, 1991.

Class 3. No. 163437. Teamafco Private Limited of R. K. Bordoloi Path, Goenka Market, 1st Floor, Dibrugarh 786 001, Assam, India, an Indian Company. "Pouch". 22nd July, 1991.

Class 3. No. 163521. Prakriti Plast Private Limited, A Company incorporated under the Companies Act, 7/62, Lane Gaushala, Agra-282 004, Uttar Pradesh, India. "Brush". 14th August, 1991.

Class 4. No. 163132. Aromatan Perfumes Private Limited, a Company registered under the Indian Companies Act, 1957 and having its registered office at 32, Hassa Mahal, Dalamal Park, Cuffe Parade, Colaba, Bombay-400 005, State of Maharashtra, India. "Bottle". 11th April, 1991.

Class 4. No. 163133. Aromatan Perfumes Private Limited, a Company registered under the Indian Companies Act, 1957 having its registered office at 32, Hassa Mahal, Dalamal Park, Cuffe Parade, Colaba, Bombay-400 005, State of Maharashtra, India. "Cap of a bottle". 11th April, 1991.

Class 4. No. 163333. Samir Kantilal Shah, an Indian National, 'Prakash', 66 Swastik Society, North-South Road No. 2, J. V. P. Development Scheme, City of Bombay-400 056, State of Maharashtra, India. "Bottle Cap". 24th June, 1991.

Class 5. Nos. 163129 & 163130. Indian Mohan Lal, Paliwal Bhawan, Paliwal Nagar, Sanjay Gandhi Chowk, Panipat-132 103, Haryana, India, an Indian national. "Educational Appliance". 11th April, 1991.

Class 10. No. 163153. Hi-Star Industries, 20-Udyog Nagar, Delhi-110 041. India, An Indian Partnership Firm. "Sole of Footwear". 16th April, 1991.

Class 12. No. 163479. Richie Rich Products, A-18. Ram House, Middle Circle Connaught Place. New Delhi-110 001, India and Indian sole Proprietorship concern. "Wall Clock Toy made of fabrics and artificial fur". 30th July, 1991.

Copyright Extended for the 2nd period of five years

Nos. 158927 to 158931. Class-5.

Nos. 158926, 158774 to 158780. Class-12.

Copyright Extended for the 3rd period of five years

Nos. 158927 to 158931. Class-5

Nos. 158926, 158774 to 158780. Class-12.

R. A. ACHARYA
Controller General of Patents & Designs and Trade Marks

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